16.5.A.

MAR 3 1 1988

Mr. Glenn Miller, Administrator Hazardous Waste Division Louisiana Department of Environmental Quality Office of Solid and Hazardous Waste P. O. Box 44307 Baton Rouge, Louisiana 70804

Dear Mr. Miller:

Enclosed you will find a copy of the following Preliminary Review (PR):

Facility Name: Colfax Creosoting Co.

EPA ID Number: LADOU8184616

Additional information will be forwarded to you as it becomes available. If you have any questions, please contact me or have your staff contact Lydia Boada Clista at (214) 655-6790.

Sincerely yours,

Sam Becker, P.E. Chief Hazardous Waste Compliance Branch

Enclosure

6H-CT:BVIdean:2/9/88:x6790 Disc #1

File Code:

Boada/

5 After 6H-CT

16 5 A

MEMORANDUM

Subject: Transmittal of Preliminary Review Report

From:

Erlece P. Allen, Chief

Technical Section (6H-CT)

To:

William K. Honker, Chief Permit Section (6H-CP)

Attached please find a copy of the following Preliminary Review (PR):

° Facility Name: Colfax Creosoting Co.

° EPA ID Number: LAD008184616

The PR report for this facility is currently under review in the Technical Section. A copy of the PR Evaluation will be sent to you as soon as it is completed.

Attachment

cc: Sam Becker (6H-C)

6H-CT:BVidean:3/16/88x6790

DISC #1

File L031

6H-CT Boada

TTL.5.A.

Colfax Creosoting Company
Wood Treatment Facility

Preliminary Review





1. INTRODUCTION

1.1 PURPOSE AND SCOPE OF THE RFA PROGRAM

The 1986 Hazardous Solid Waste Amendments (HSWA) give the EPA new authority to require comprehensive corrective actions of solid waste management units (SWMU), and other areas of concern at interim status hazardous waste management facilities. HSWA applies particularly to facilities applying for RCRA permits. Corrective actions are intended to address unregulated releases of hazardous constituents to air, surface water, soil and ground water, and the generation of subsurface gas.

A major segment of this program consists of RCRA Facility Assessments (RFA) to identify releases or potential releases requiring further investigation. According to the EPA RCRA Facility Assessment Guidance Document, the four-fold purpose of the RFA is to:

- 1. Obtain data about releases at RCRA regulated facilities.
- 2. Evaluate SWMUs and other areas of concern for releases to all media, and evaluate regulated units for releases other than ground water.
- 3. Determine releases of concern and the need for further actions and interim measures at the facility.
- 4. Screen from further investigations those SWMUs which do not pose a threat to human health and the environment.

The three basic steps of the RFA consist of a preliminary review (PR) of available information, a visual site inspection (VSI) to obtain additional information on releases, and a sampling visit (SV) to fill data gaps by obtaining field and analytical data.

1.2 CONTENTS OF REPORT

This report contains the results of the preliminary review of the Colfax Creosoting Company Wood Treatment Facility in Pineville, Louisiana. Information was obtained from the Facility Closure Plan and Groundwater Monitoring Program submitted by Colfax to the Louisiana Department of Environmental Quality (LADEQ), RCRA investigative reports from the state and EPA, correspondence between Colfax and LADEQ, and analytical results obtained by state representatives and Colfax contractors. These documents were obtained from file searches of the EPA Regional Office in Dallas and LADEQ in Baton Rouge.

Section 2 of this report describes the Colfax facility, and its historical and current operations. Individual SWMUs are identified, with a summary description of the wastes managed by the facility. Section 3 offers an overview of the facility's environmental setting, comprising meteorology and air quality, floodplain and surface water, geology and soil, ground water, and receptor information. Section 4 assesses release pathways, covering the potential for release to soil, ground water, surface water, and air. Section 5 details documented releases and the SWMUs associated with the release. Section 6 presents conclusions, summarizing areas of concern and indicates where further investigation is warranted.

2. PACILITY DESCRIPTION

2.1 LOCATION

Colfax Creosoting Company, located on Wadley Road, Pineville, Rapides Parish, Louisiana (Figure 1 and Figure 2), is comprised of two separate parcels of property. Parcel A (Figure 3), owned by the Kansas City Southern Railroad, and leased to the company on a year-to-year basis, contains the wood treatment and processing facilities. Parcel B (Figure 3), owned by the Kansas City Southern Railroad, and leased to the company on a year-to-year basis, contains the wood treatment and processing facilities. Parcel B, a 40 acre tract of land owned by the company, contains several surface impoundments which were once utilized in a hazardous waste recovery system operated on the premises. Colfax Creosoting Company is located at 92° 26′ 00" longitude, 81° 19′ 10" latitude, Township 4 North, Range 1 West, Section 21.

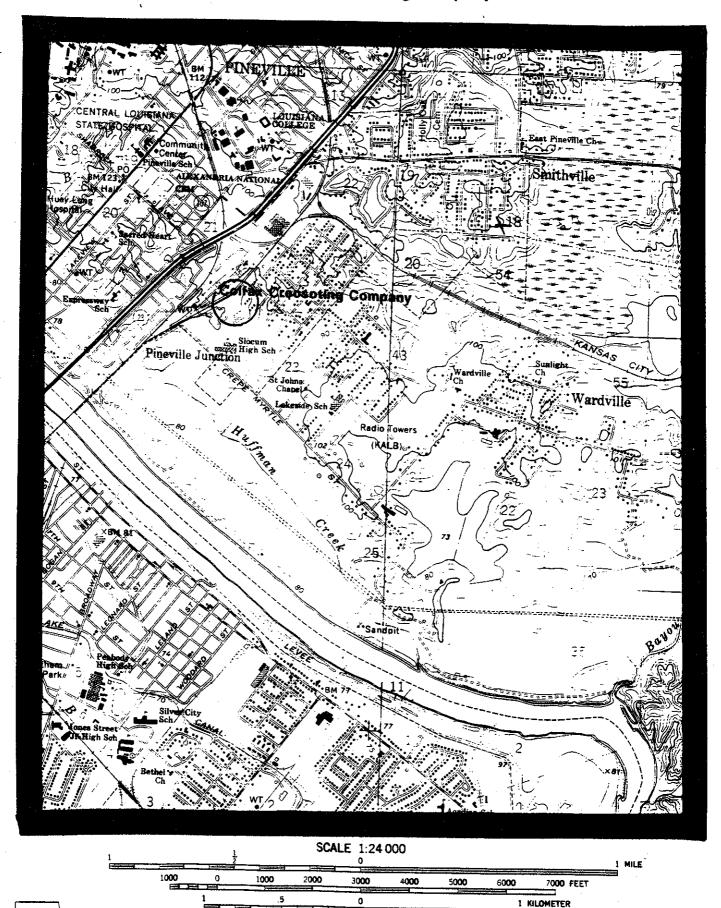
2.2 HISTORICAL AND CURRENT OPERATIONS

Colfax Creosoting Company is a branch of Roy O. Martin Lumber Co., Inc., established in 1923 by Roy O. Martin. Colfax Creosoting has been in operation at this facility since 1948, when the plant was moved to this location from Colfax, Louisiana. The methods of wood treatment utilized creosote, pentachlorophenol (penta), and copper, chromium and arsenic (CCA). Although the company uses all of these preservatives, creosote accounts for approximately 80% of the total, while penta production is approximately 19%. CCA treatment is usually less than 1% of the total plant production.

The CCA process differs from the penta and creosote processes in that CCA is process water-demanding, while penta and creosote are process water-bearing methods. In the CCA method, any process spill generated at the CCA portion of the plant is captured together with stormwater runoff, and stored in above-ground steel tanks. The collected water is used to dilute the concentrated CCA solution for the next batch of preservative. The CCA method also utilizes additional make-up water from an outside source and generates little process water. On the other hand, the creosote and penta systems generate approximately 10,000 gallons of process water per day.

The process water generated by the penta and creosote processes more than satisfies the water need of the CCA method, therefore, the surplus water needs to be discharged.

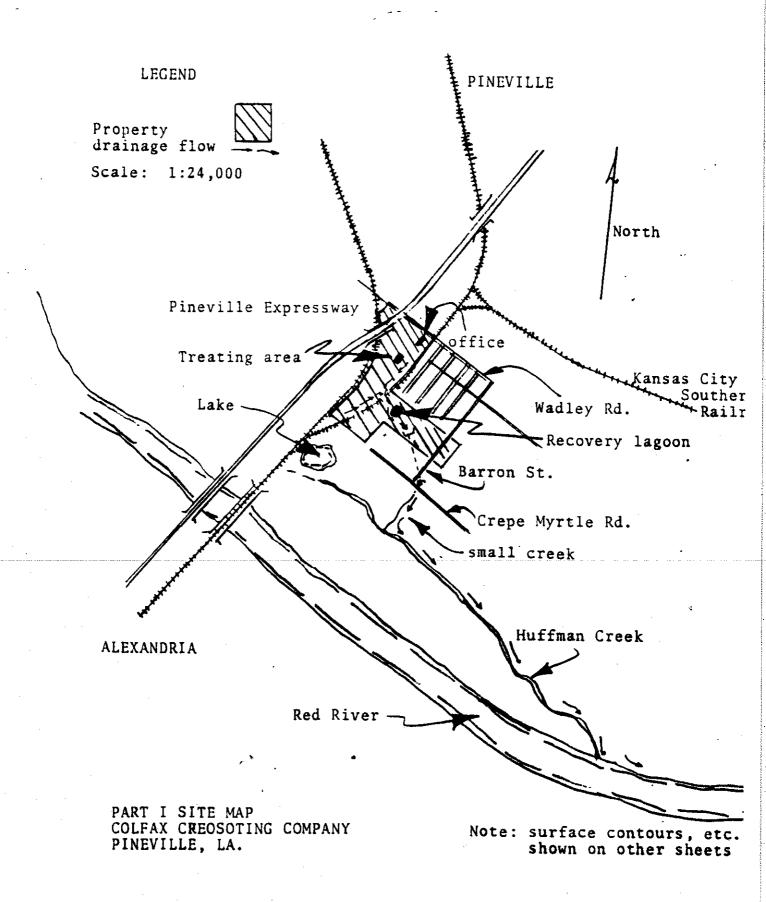
Until late 1983, all process water was released to a surface impoundment south of the production facility. Water not reclaimed in the CCA process was evaporated through a spray system. When ground water contamination was detected in a well downgradient of the surface impoundment, the state ordered that no further discharge be made, and

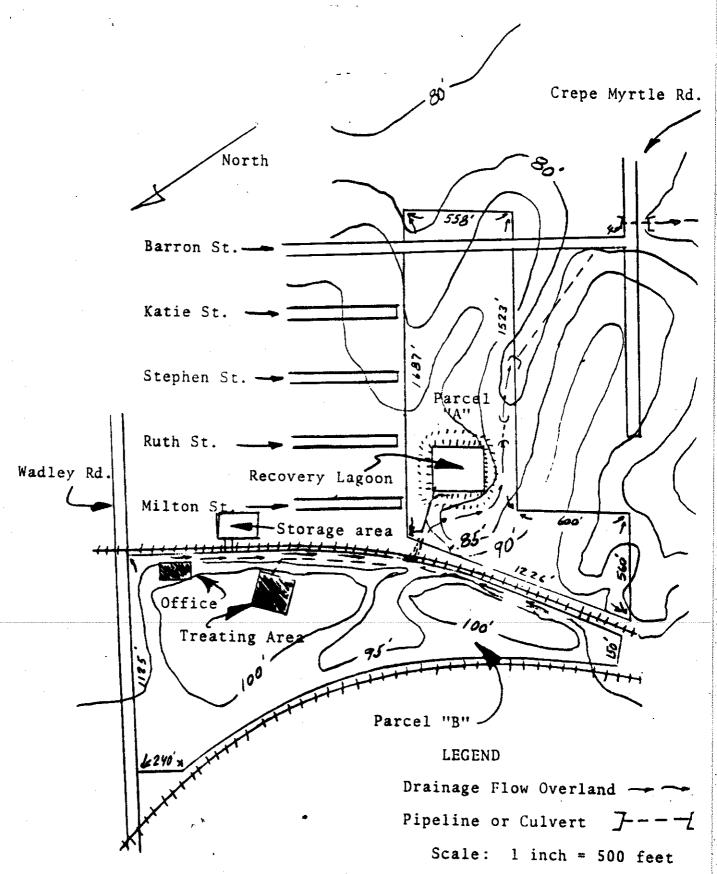




CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ALEXANDRIA, sw/4 ALEXANDRIA 15' QUAD N3115—W9222.5/;





PART I CONTOUR AND PROPERTY DIMENSION MAP COLFAX CREOSOTING COMPANY PINEVILLE, LA.

that the company officially close the surface impoundment. Subsequently the impoundment was closed, and it is currently in the post-closure phase of remediation.

The company currently operates an above-ground process water recovery system and a water treatment facility to handle the generated process water. Treated process water is discharged into the Pineville sewer system under a permit issued by the City of Pineville.

2.3 IDENTIFICATION OF SOLID WASTE MANAGEMENT UNITS

Forty-two potential SWMUs have been identified (Table 1) during the preliminary review.

Solid Waste Management Units

- #1 Treated Wood Storage Areas Four (Table 1, Ref. 1-4, and Figure 4) of the identified solid waste management units are areas for treated wood storage. These areas may be contaminated from continual dripping of preservatives from the treated wood onto the ground.
- #2 Pits and Impoundments Eight (Table 1, Ref. #5-12, and Figure 5) of the identified solid waste management units are associated with the surface impoundments. These were utilized as a discharge and recovery system for process water generated by the penta and creosoting processes. Documentation shows that these eight SWMUs contribute to the contamination of the ground water downgradient of the impoundments.
- #3 Process area units Twenty eight(Table 1, Ref #13-40, and Figure 6) of the solid waste management units assosciated with the process area are included due to the fact that they are continually utilized in the storing, processing and recovery of the hazardous wastes present at this facility.
- #4 Contaminated Soils Solid waste management unit 41 (Table 1, Ref. #41) was referred to in an inspection report from LADEQ, dated 8/29/85. This report identified only the presence of contaminants in the process area. No exact location was given.
- #5 Drummed Creosotes Solid waste management unit 42 (Table 1, Ref #42) was referred to in an inspection report from LADEQ, dated 12/20/84. This report identified only the presence of contaminants in the process area. No exact location was given.

Solid Waste Management Units For Colfax Creosoting

REF.#	<u>Location</u> <u>Documented</u>	Release	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Treated Wood Storage Treated Wood Storage Treated Wood Storage Treated Wood Storage Contaminated soil(Weste Pile) Waste Recovery Pond Waste Recovery Pond Surface Impoundment Sludge Pit Sludge Pit Sludge Pit Sludge Pit Creosote Cylinder CCA Cylinder Penta Cylinder Steaming Cylinder CCA Storage Tank Creosote Water Tank Penta Water Tank WR Water Tank Duratreat Water Tank	No No No No No Yes Yes Yes Yes Yes Yes Yes Yos No	W OIT A
· 23 24 25 26 27 28 29 30 31 32 33	Duratreat Conc Storage Penta Storage& Mix Tank Penta Mix Tank Penta Unloading Area Creosote Unloading Area Treating Room Creosote Storage Creosote Storage Creosote Storage Creosote Storage Cooling Pond Water Storage	No	
34 35 36 37 38 39 40 41 * 42 *	Creosote Storage Creosote Storage Creosote Separator Creosote Storage Creosote Storage Creosote Separator Creosote Separator Penta Separator Contaminated top soils Drummed Creosote	No	

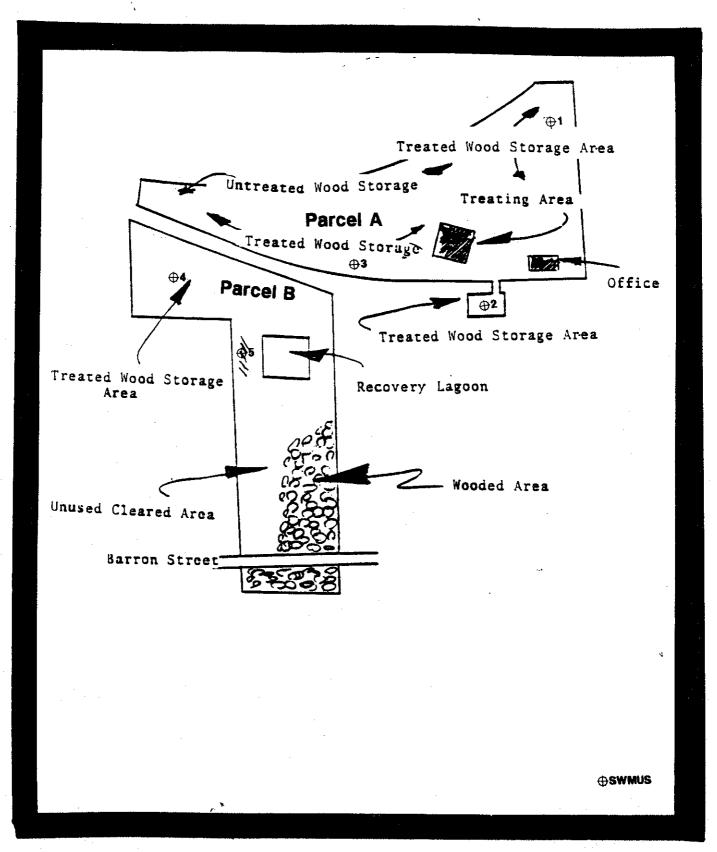
^{*} SWMU DOCUMENTED WITHOUT PRECISE LOCATION

Anayltical Results for Colfax Creosoting Company

	Monitoring	Well	Results	in	ppm of	Phenols
Date of	Sampling	MW1	MW2	MW3	ЕММИ	MW4
3/16/83		.001	.001	. 14	na	na
9/7/84		U	.02	na	05	s u
12/10/85	5	2005	Z007	~ ~	070	200E

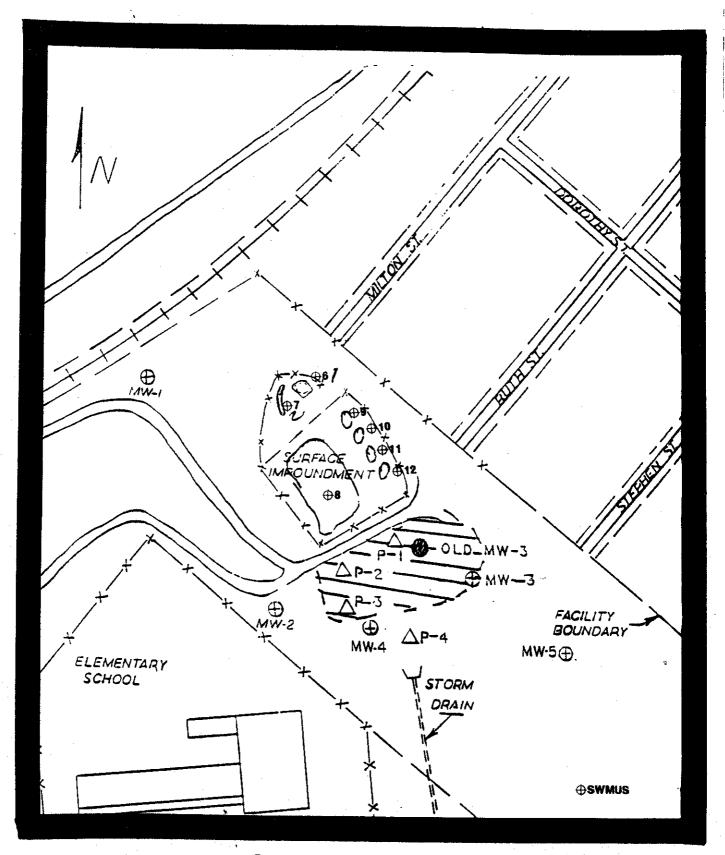
Borings Sample Results in ppm Total K001 Constituents and ppm Total Phenols

Boring Cell #	1	2	4	5 .	8	9
Total K001	. 2	2.13	4.3	.04	.038	3.53
Total Phenols	.08	.03	3.9	.03	. 03	2.41



Colfax Creosoting Company

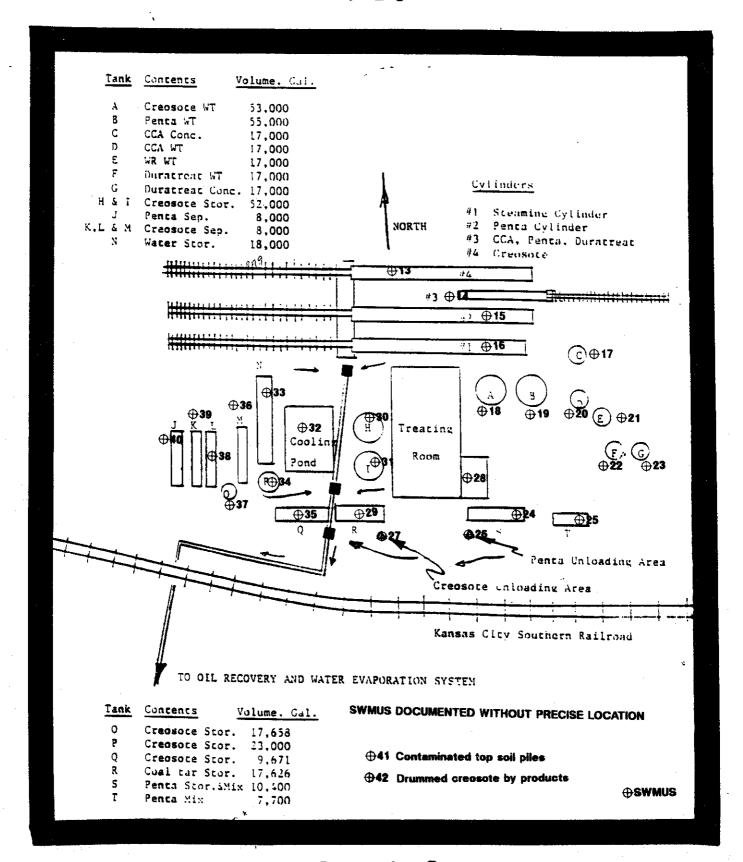
Pineville La. LAD008184616



Colfax Creosoting Company

Pineville La.

LAD008184616



Colfax Creosoting Company

Pineville La.

LAD008184616

2.4 SUMMARY OF WASTES PRESENT

Creosote, penta chloraphenol, chromium, copper, and arsenic are the hazardous wastes of concern on-site. These contaminants and their by-products may be present in varying concentrations in the top soils, surface water, and groundwater within the site boundary and surrounding area. Creosote by-products (Table 2) and penta have been documented in the borings taken from the impoundment sludges. Groundwater contamination by phenols and chloride has been documented in monitoring well #3 downgradient of the impoundment.

CREOSOTE COMPOUNDS

			Formula	Boiling Point	Concentration Range
Coumarone		• '	C8H6O	174	Α
p-Cymene			C10H14	177	Α
Indene			С9Н8	182	Α
Phenol			C ₆ H ₆ O	181	
O-Cresoi			C ₇ H ₈ O	190	Α .
Benzonitrile			C7H5N	191	A
m-Cresol			C7H8O	202	A
Naphthalene			C10H8	218	A
Thionaphthene	·		C8H6S	218	D
Quinoline			CgH7N	243	Ą
2-Methylnaphthalene	•		C11H10	243	A
Isoquinoline			C9H7N		B
1-Methylnaphthalene			C ₁₁ H ₁₀	238	A
4-Indanoi			CgH ₁₀ O	245	A
2-Methylquinoline				245	8
indole			C ₁₀ H ₉ N	247	A
Diphenyl	·		C8H7N	252	Α
			C12H10	255	Α
1, 8-Dimethylnaphthalene			C12H12	262	Α .
2, 3-Dimethylnaphthalene			C ₁₂ H ₁₂	266	A
Acenaphthene	· *		C12H10.	281	D .
Dibenzofuran	•		C ₁₂ H ₁₀ O	287	D
Fluorene			C ₁₃ H ₁₀	299	D

Table

	Formula	Boiling Point	Concentration Range
1-Naphthonitrile	C11H7N	297	Α
3-Methyldiphenylene	C ₁₃ H ₁₀ O	298	В
2-Naphthonitrile	C11H7N	304	A
9, 10-Dihydroanthracene	C ₁₄ H ₁₀	305	В
2-Methylfluorene	C ₁₄ H ₁₂	318	В
Diphenylene Sulfide	C ₁₂ H ₈ S	332	B
Phenanthrene	C14H10	340	D
Anthraceme	C14H10	342	C
Acridene	C13H9N	346	
, 3-Methylphenanthrene	C ₁₃ H ₁₂	350	A B
Carbazole	C ₁₂ H ₉ N	352	•
4, 5-Methylenephenanthrene	C15H10	353	В
2-Methylanthracene	C ₁₅ H ₁₂	360	В
9-Methylanthracene	C ₁₅ H ₁₂	361	A 8
2-Methylcarbazole	C13H11N	363	
Fluoranthene	C16H10	382	B.
1, 2-Benzodiphenylene	C ₁₆ H ₁₀ O	395	· D
Pyrene	C ₁₆ H ₁₀		8
Benzofluorene	C ₁₇ H ₁₂	393	В
Chrysene		413	8 .
Unidentified Compounds in Distillate	C ₁₈ H ₁₂	448	8
mine campounds in Distingte !			D

A = Compounds having a concentration less than 0.5%

B = Compounds having a concentration greater than 0.5% and less than 3.0%

C = Compounds having a concentration greater than 3.0% and less than 5.0%
D = Compounds having a concentration greater than 5.0%

3. ENVIRONMENTAL SETTING

3.1 METEOROLOGY AND AIR QUALITY

The climate in the Pineville-Alexandria area is warm and humid. Annual mean relative humidity is 73%. The average high temperature in the area (July) is 93°F; the average low temperature (February) is 41°F. Annual precipitation is 60 inches per year. The prevailing winds are in a northerly direction. A wind rose is presented in Figure 7.

3.2 FLOODPLAIN AND SURFACE WATER

The Red River 100-year floodplain extends onto the southern portion of the Colfax facility (Figure 8), and is approximated by the 90-foot topographic contour line. The floodplain borders the western half of the surface impoundment, and includes the contaminated drainage ditch west of the impoundment (see Figure 5).

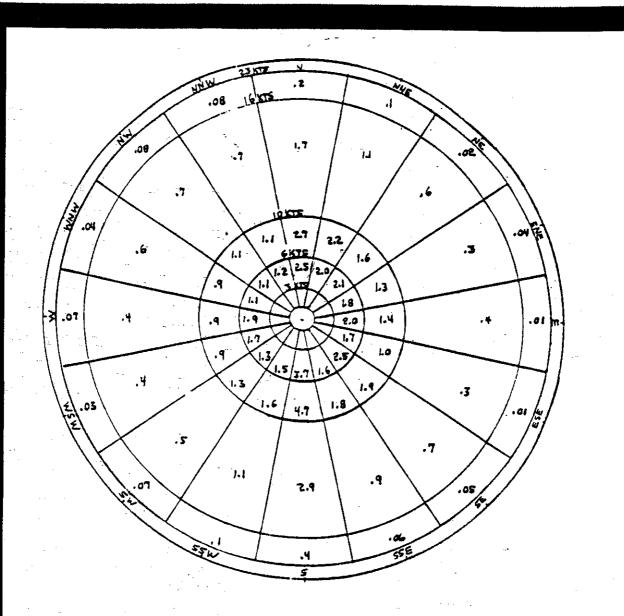
The Red River is the closest major downstream surface water body (Figures 8 and 9). All surface runoff from the facility flows south in an intermittent stream for approximately 0.5 mile before discharging into the Huffman Creek, which flows southwest and discharges into the Red River. The surface water runoff path from the facility boundary to the Red River is 1.7 miles.

3.3 GEOLOGY AND SOILS

The Red River Valley Alluvium immediately underlies the facility. This stratigraphic unit consists of clay and silt. Several on-site soil borings revealed this unit at a depth of 5 to 15 feet below land surface. Allowing for land surface elevation, the unit appears to have a relatively horizontal base at the facility.

Pleistocene Upland deposits underlie the alluvium. Upland deposits are generally less than 100 feet thick in the region of the facility. The deposits are generally sandy, with gravel in the lower depths. There are substantial amounts of clay in the upper part of the unit in some areas. The color of the near surface material is most commonly influenced by the relative amounts of yellow and iron-red sediments.

The Upland deposits are underlain by Miocene age sands. These sediments contain thick, predominantly sand intervals, alternating with thinner clayey zones. The Miocene sand beds are approximately 1,000 feet thick beneath the facility. This unit is the deepest fresh-water bearing unit under the facility.



Annual Wind Rose Diagram for Alexandria La.

Colfax Creosoting Company
Pineville La.

LAD008184616

NORTH 100 Year Flood Plane Co COLFAX CREOSOTING COMPANY

100 YEAR FLOOD PLANE MAP

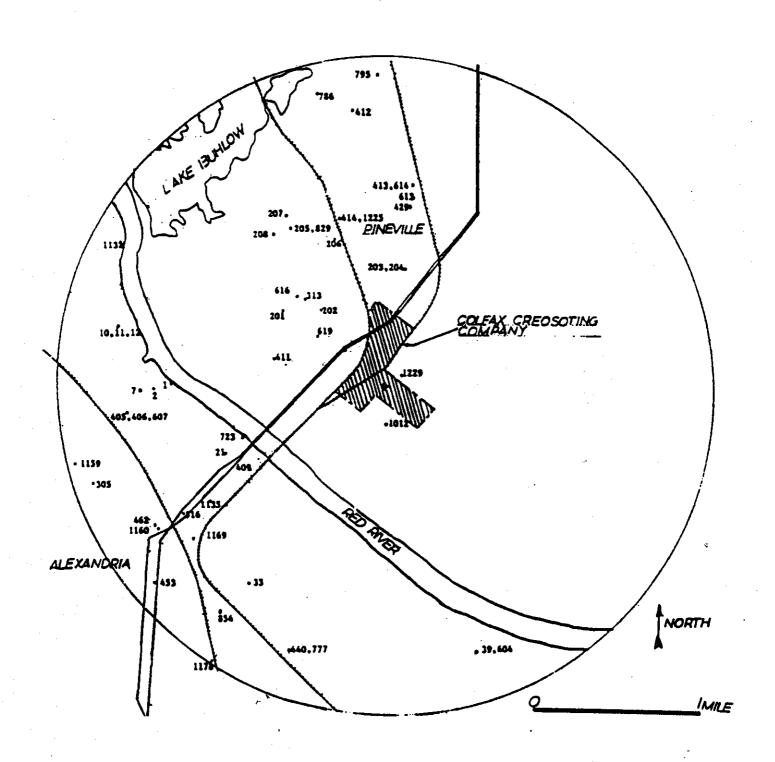


FIGURE 2

LOCATION OF WATER WELLS WITHIN 2 MILES OF IMPOUNDMENT BASED ON LA. DEPARTMENT OF PUBLIC WORKS RECORDS

3.4 GROUND WATER

A perched water table was reported in the Red River Valley Alluvium. Depths to the perched water table were reported in two of the three boreholes: eight feet in one and nine feet in another.

The water table beneath the facility is located in the Pleistocene Upland deposits. The depth to water is approximately thirty feet below land surface. Ground water in the Pleistocene aquifer flows toward the southeast.

Recharge to the Pleistocene aquifer occurs mostly through rainfall percolation. Hydraulic conductivities as high as 10^{-1} cm/sec were reported. Wells in this unit generally yield 100 to 200 gallons per minute (gpm). The water is soft, acidic, and contains less than 150 parts per million (ppm) of dissolved solids.

Hydraulic conductivities in the Miocene sands generally range from 10^{-3} to 10^{-2} cm/sec. Wells in the Alexandria area generally yield 300 gpm from this unit. The sodium bicarbonate water in the Miocene sands is soft and slightly alkaline. Dissolved solids generally are less than 500 ppm.

3.5 RECEPTOR INFORMATION

Colfax Creosoting Company is located in a residential and commercial area in Pineville. Within a one mile radius, there are five schools, one university, fifteen churches, two hospitals, the Pineville City Hall and a community center. Approximately 2,000 people live within a one-mile radius of the facility.

Fifty-two wells have been identified within a 2-mile radius of the facility (Figure 9). Twenty-four of the wells are located on the same side of the Red River as the facility.

4. RELEASE PATHVAYS

4.1 AIR RELEASE PATHWAYS

Some wastes utilized at this facility (creosote, penta and creosote by-products) are organic in nature and may be volatilized. The high temperatures of the region increase the chance for volatilization; however, the high humidity (73%) would significantly decrease the chance for release of these compounds into the atmosphere. Due to these conflicting environmental factors, release of hazardous constituents into the atmosphere would be minimal.

4.2 SURFACE WATER PATHWAYS

Runoff from the facility enters a ditch and flows to an intermittent stream south of the property (see Figure 2). Process area runoff is not contained.

The ditch contains deposits of a substance resembling K001 with a distinct creosote smell. Runoff from the site could pick up hazardous substances from the process, and other areas, and transport them to the Red River. The drainage ditch is within the Red River 100-year floodplain.

4.3 SOIL PATHWAY

A creosote-like substance in the soil was reported in the process area, at the bottom of the unlined surface impoundments, and at other unspecified areas. There is no documentation indicating any containment structures which would prevent the migration of contaminants in the soil.

4.4 GROUND WATER PATHWAY

Ground water contamination has been documented downgradient of the large surface impoundment. The upgradient monitoring well has not shown contamination, but K001 constituents have been identified in at least one downgradient monitoring well.

The only documented ground water sampling data were obtained near the surface impoundments. The possibility of additional on-site sources of ground water contamination cannot be excluded.

5. DOCUMENTED RELEASE

5.1 GROUND WATER RELEASE

A documented release to ground water was observed by LADEQ on March 16, 1983 during a routine compliance sampling of the Colfax ground water monitoring system. A concentration of .14 ppm phenols were detected downgradient of the impoundment in monitoring well #3. As a consequence of this contamination, a new monitoring well #3 was installed downgradient of the original monitoring well #3. Monitoring well #2 was installed in December, 1983, in response to an order issued by LADEQ.

All existing monitoring wells were sampled again in September, 1984. No significant concentrations of phenols were detected. Sampling in December 1985 showed a high concentration of phenols in the new monitoring well #3. Once again, Colfax installed a new downgradient well (#5) to determine the plume of contamination. No contaminants were detected in monitoring well #5.

5.2 SOLID WASTE MANAGEMENT UNITS RESPONSIBLE FOR RELEASE

It is stated in a ground water assessment plan for Colfax, dated July 7, 1984, that the downgradient ground water contamination originates from the surface impoundments (Ref. #5-12). Borings taken from sludges in the area of the large surface impoundment (Ref. #8) show contamination by phenols. No borings were taken from the other units within the area of the large surface impoundment (Ref. #5-7, 9-12); however, there is documentation stating that the contents of the two process water ponds and the four sludge pits contain the same hazardous wastes as found in the large surface impoundment. Therefore, it can be concluded from these factors that these units are also contributing to the downward migration of hazardous wastes into the ground water pathway.

The contaminated soil (Ref. #5) is indicated to be a waste pile, located approximately 50 yards west of the surface impoundment. There is documentation stating that the pile appears to consist of the same material as that accumulated at the bottom of the large surface impoundment. It is likely that this material is seeping into the ground and contributing to the downward migration of contaminants into the groundwater pathway.

5.3 MITIGATIVE ACTION

Colfax Creosoting Company is currently in the post-closure phase of remediation for the two smaller waste recovery ponds (Ref. #6, 7), the large surface impoundment (Ref. #8), and the four sludge pits (Ref. #9-12).

6. CONCLUSIONS

A review of EPA and LADEO files of the Colfax Creosoting Company resulted in the following conclusions:

- There has been a documented release of hazardous waste to the ground water from the large surface impoundment (SWMU Ref. #8).
- 2. File documents indicate that the smaller impoundments (SWMU Ref. #6, 7, 9, 10, 11 and 12) have released contaminants into the soil, and possibly into the ground water.
- 3. File documents suggest that the waste pile west of the impoundments (SWMU Ref. #5) has released contaminants into the soil and the surface water runoff pathway.
- 4. File documents also indicate spills in the process area, and storage of contaminated materials without proper containment structures. The exact locations were not specified in the files.

With the exception of one waste pile (SWMU Ref. #5) and the surface impoundments (SWMUs Ref. #6 through #12), the files do not contain sufficient detail to determine spills from other SWMUs. There is no information available to identify the process units which produced spills; the frequency of spills, and the locations of storage areas containing hazardous wastes. A visual inspection of each SWMU, and interviews with state regulators and facility representatives is necessary to fill the information gaps.

GROUND-WATER MONITORING PROGRAM EVALUATION PERFORMED FOR

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

BY

THE EARTH TECHNOLOGY CORPORATION UNDER

EPA CONTRACT NO. 68-01-6515 WORK ASSIGNMENT R06-018

COMPANY: Colfax Creosoting Co.

EPA ID#: LAD008184616

COMPANY ADDRESS:

P.O. Box 231

Pineville, LA 71360

PREPARER'S NAME:

E. Fernandez-Obregon

DATE: September 10, 1984

PROGRAM DESCRIPTION: Alternate Assessment Program

REGULATORY DEFICIENCIES

- o Subsequent to the determination of statistically significant increases in the values for contamination indicator parameters for the downgradient wells, additional ground-water samples were not obtained from those wells where the significant differences were detected, and chemical analyses of ground-water samples were not performed to verify the initial results, as required under 265.93(c)(2) and 23.37d).
- o A ground-water quality assessment plan that meets the requirements outlined in 265.93(d)(3) and 23.37g) was not submitted within fifteen days after the notification under 265.93(d)(1) and 23.37e), as required by 265.93(d)(2) and 23.37f).

The plan submitted by the facility in response to a Consent Order issued by LADEQ on October 7, 1983, did not specify the number, locations, and depths of additional monitoring and observation wells which were planned for the assessment program, nor did the plan <u>describe</u> the sampling, analytical, and evaluation methods to be utilized during the course of the assessment.

o The first determination of the rate and extent of contaminant migration and the concentrations of hazardous wastes or hazardous waste constituents in the ground water was not made as soon as technically feasible, to satisfy the regulatory requirements set forth in 265.93(d) (5) and 23.37i).

A report containing a written assessment of the ground-water quality was not submitted to the Administrative Authority within fifteen days after completion of the initial determination.

o The initial assessment of ground-water contamination at Colfax Creosoting Co. did not include a determination of the horizontal and vertical rates of contaminant migration, as required by

265.93(d)(4)(i) and 23.37h)i). The facility's consultant apparently has assumed that the contaminant of concern (creosote) travels through the permeable zone at the same rate as unaffected ground water. As the specific gravity of creosote is known to be higher than that of water, this assumption is unacceptable.

Quarterly determinations of the rate and extent of contaminant migration and of the concentratins of hazardous wastes or hazardous waste constituents have not been made in accordance with the regulatory requirements outlined in 265.93(d)(7).

TECHNICAL COMMENTS

- A regional hydrogeologic map of the area indicating major areas of recharge/discharge and the regional ground-water flow direction should be presented.
- A revised site-specific potentiometric surface map showing groundwater flow lines and static water levels recorded for each monitoring well should be submitted.
- o Additional monitoring well construction details concerning the depths to, and diameters and lengths of sand packs around well screens should be provided for Wells 1-4. The length of the well casing and well screen information should be specified for Well No.

 4. Complete construction details for the observation wells utilized as part of the assessment program should be submitted. The method(s) utilized to develop wells after installation should be outlined.
- o The specific method utilized for sample collection in the field should be identified. Review of the facility's sampling and analysis plan reveals that samples are obtained "using either a submersible pump, positive displacement pump, or other means to obtain representative samples." In order to minimize the potential for variability in analytical results, reference to a single sampling technique should be made in the sampling and analysis plan and adherence to this sampling method should be maintained by sampling personnel.
- o The length of time that samples are held between sample collection and laboratory analysis should be indicated. It is presently unclear whether ground-water samples are shipped under cold conditions (ice packs) to prevent sample degradation; the facility should demonstrate that provision is made to store and ship samples under refrigeration.
- o The chain-of-custody control form should be amended to include the signature and affiliation of the sample shipper.

APPENDIX A-2

INSPECTION COMPLIANCE FORM FOR A FACILITY WHICH MAY BE AFFECTING GROUND-WATER QUALITY

Cor	npan	y Name: Colfax Creosoting Co.;	EPA I.D. Nun	nber: <u>LAI</u>	<u>>008184</u> 6
Cor	npan	y Address: P.O. Box 231	Reviewer's ; Inspector's	Tame: E.	-ernandez-
		Pineville, LA 71360			
Сог	npan		Branch/Orga		
Tit1	e:		بے Date of Insp	.>⊶ e ctio n: <u> 9</u>	110/84
Тур	e of	facility: (Check appropriately) a) surface impoundment b) landfill c) land treatment facility d) disposal waste pile	Yes 	No O	<u>Unknown</u>
1.	con upg can	ve comparisons of ground-water tamination indicator parameters for the radient well(s) 265.93(b) shown a signifitincrease (or pH decrease as well) over ial background?	<u> </u>		
	a)	If "Yes", has this information been submitted to the Regional Administrator according to 265.94(a)(2)(ii)?	Unle	non	
2.	the sign	ve comparisons of indicator parameters for downgradient wells 265.93(b) shown a nificant increase (or pH decrease as well) r initial background?	r 	***************************************	
	a)	If "Yes", were additional ground-water samples taken for those downgradient wells where the significant difference was determined? 265.93(c)(2)			
		 Were samples split in two? Was the significant difference due to human (e.g., laboratory) error? (If "Yes", do not continue.) 	NA		

			Yes	No	<u>Unknown</u>
3. 1.	erro the con Set \ With Adn	gnificant differences were not due to or, was a written notice sent to Regional Administrator within 7 days of firmation? The firm of the firm of the Regional ministrator was a certified ground-water qualessment plan submitted? 265.93(d)(2)*	,		Plan submitted after an Order was issued by the State
i.	a)	Does the plan specify 265.93(d)(3):			
		1) well information (specifics)		<u> </u>	
		(a) number?(b) locations?(c) depths?		<u></u>	Locations of wisting wells in cond of proposed Well # 1 ave to winded. Locate.
		2) sampling methods?3) analytical methods?4) evaluation methods?5) schedule of implementation?		<u></u>	other details of add in observation and well constituted and well constituted for existing
	b)	Does the plan allow for determination of 265.93(d)(4):			provided in the grand hater assessment
		 Rate and extent of migration of hazardous waste or hazardous waste constituents? Concentrations of the hazardous waste or hazardous waste constituents? 	<u>√</u>		plan.
	e)	Is it indicated that the first determination was made as soon as technically feasible? 265.93(d)(5)			
		1) Within 15 days after the first determination was a written report containing the assessment of ground-water quality submitted to the Regional Administrator?			
	d)	Was it determined that hazardous waste or hazardous waste constituents from the facility have entered the ground water?	<u> </u>	!	
		 If "No", was the original indicator evaluation program, required by 265.92 and 265.93(b), reinstated? 	NIA		
		(a) Was the Regional Administrator notified of the reinstatement of program within 15 days of the determination? 265.93(d)(6)	NIA		

- e) If it was determined that hazardous waste or hazardous waste constituents have entered the ground water 265.93(d)(7):
 - For facilities where program was implemented prior to final closure, are determinations of hazardous waste or hazardous waste constituents continued on a quarterly basis?
 (If program was implemented during the post-closure care period, determinations made in accordance with the ground-water quality assessment plan may cease after the first determination.)
 - (a) Were subsequent ground-water quality reports submitted to the Regional Administrator within 15 days of determination?

2) Were records kept of the analyses and evaluations, specified in the ground-water quality assessment (throughout the active life of the facility)?

265.94(b)(1)

- (a) If a disposal facility, were (are) records kept throughout the post-closure period as well?
- f) Are annual reports submitted to the Regional Administrator containing the results of the ground-water quality assessment program? 265.94(b)(2)*

1) Do the reports include the calculated or measured rate of migration of hazardous waste or hazardous waste constituents during the reporting period? The ground-water quality assessment purpose his next conducted on a granting basis

NA _

APPENDIX B

GROUND-WATER MONITORING AND ALTERNATE SYSTEM TECHNICAL INFORMATION FORM

1.0	Back	ground Data:
Co	mpany 1	Vame: Colfax Creosoting Co.; EPA I.D.#: LADOOS184616
Co	mpany A	Address: P.O. Bex 331
		Pineville, LA
Re	vieweris	71360
-Ins _i	ector's	Name: E. Fernandez-Obregon; Date: 9/10/84
1.1	Туре	of facility (check appropriately):
	1.1.1 1.1.2	surface impoundment
	1.1.3	land treatment facility
	1.1.4	disposal waste pile
1.2		ground-water monitoring system been ished?
		(Y/N)/
	1.2.1	Is a ground-water quality assessment program outlined or proposed? (Y/N)
		If Yes,
	1.2.2	Was it reviewed prior to the site visit? (Y/N)
1.3	Has a	Fround-water quality assessment program been
	implen	nented or proposed at the site? (Y/N)
	If yes, Progra	Appendix C, Ground-Water Quality Assessment m Technical Information Form must be utilized also.
2.0		al/Facility Map(s)
2.1	Is a reg delinea	rional map of the area, with the facility ted, included? See facility's Permit application (Y/N)
	If yes,	(Nov. 12/1983)
	2.1.1	What is the origin and scale of the map? Origin unknown, Scale 1:24000
	2.1.2	Is the surficial geology adequately illustrated? (Y/N)

	2.1.3	Are there any <u>significant</u> topographic or surficial features evident?	(Y/N) Y	
	2.1.4	If yes, describe Leve is a lake approx. Huffman Creek Clows sontheastward approx. 1000's Red River Clows last-sontheastward approx. Are there any streams, rivers, lakes, or wet lands near the facility?	700' Sw of south (Y/N)	property; serfy; of the site. Fault zon
		If yes, indicate approximate distances from the facility	2.1.3	miles west of the site
	2.1.5	Are there any discharging or recharging wells near the facility?	(Y/N) <u></u>	
		If yes, indicate approximate distances from the facility. Within a 2 mile radius of	vater wells the site.	
2.2	Is a reg (This in	gional hydrogeologic map of the area included? If ormation may be shown on 2.1)	(Y/N) N	•
	2.2.1	Are major areas of recharge/dishcarge shown? If yes, describe.	(Y/N) N/A	
	2.2.2	Is the regional ground-water flow direction indicated?	(Y/N) <u>N</u> 1/	+
	2.2.3	Are the potentiometric contours logical? If not, explain.	(N/Y) <u>PIA</u>	
2.3	Is a fac:	ility plot plan included? See facility's Nov. 12, 1983 Permit Application Are facility components (landfill areas, impound-		
	2.3.2	ments, etc.) shown? Are any seeps, springs, streams, ponds, or wetlands indicated?	(Y/N) /	

	2.3.3	Are the locations of any monitoring wells, soil borings, or test pits shown?	(Y/N) _
	2.3.4	Is the facility a multi-component facility?	(Y/N) N
		If yes:	
		2.3.4.1 Are individual components adequately monitored?	(Y/N) N/
		2.3.4.2 Is a Waste Management Area delineated?	(Y/N) UM
2.4	menud	se facing s fact of permit application	(Y/N) <u> </u>
	If yes,		
	2.4.1	Do the potentiometric contours appear logical based on topography and presented data? (Consult water level data)	(** (**) Y
	0.4.0		(Y/N) -
	2.4.2	Are groundwater flowlines indicated?	(Y/N) N
	2.4.3	Are static water levels shown?	$\frac{(Y/N)}{(Y/N)} \frac{\gamma}{N}$
	2.2.4	May hydraulic gradients be estimated?	(Y/N) Y
	2.4.5	Is at least one monitoring well located hydraulically upgradient of the waste management area(s)?	(Y/N) Y
	2.4.6	Are at least three monitoring wells located hydraulically downgradient of the waste management area(s)?	(Y/N) _
	2.4.7	By their location, do the upgradient wells appear capable of providing representative ambient groundwater quality data?	(Y/N) <u>\</u>
		If no, explain.	

1		See Grand Water Hosesman Plan - Final Report
3	.0 Soil	Boring/Test Pit Details See Ground Water Hosesonent Plan - Final Report (by Ball Eng., Inc. July 20, 1984) and Site inspection Checklist of 11/14/83
3	.1 Were	qualified professional?
	If yes	·
	3.1.1	Indicate the individual(s) and affiliation(s): NJ. Gorsha Jr., P.E., Geotechnical Testing Lab Inc. of Alexandria, LA
	3.1.2	Indicate the drilling/excavating contractor, if known Lee Well Drilling, Alexandria LA
3.2		borings/test pits were made, indicate the method(s)
	•	Auger (hollow or solid stem) Mud rotary Air rotary Reverse rotary Cable tool Jetting Other, including excavation (explain)
3.3	List the	number of soil borings/test pits made at the site
	3.3.1	Pre-existing
	3.3.2	For RCRA compliance
3.4	Indicate diamete	borehole diameters and depths (if different (for 11/14/83 Site inspection checkings and depths use TABLE B-1).
		Diameter: Sound 1 9.3= 4"; Bring 4= 8; Obstration Bring 1=2"; Obser Bring 2= 2"
9 =	•	Depth: Pround 1= 40 ft., Brump 2+3=30 ft. Observation Boring 1=62 Observational
3.5		hologic samples collected during drilling? (Y/N)
	If yes, 3.5.1 1	fow were samples obtained? (Check method(s))
	•	Split spoon Shelby tube, or similar Rock coring Ditch sampling Other (explain)

BORING NO.	DEPTH	DIAMETER

	3.5.2	At what interval were samples collected? Cyprox. avery 5
	3.5.3	Were the deposits or rock units penetrated described? (boring logs, etc.)
3.6		t pits were excavated at the site, describe ourse.
4.0	Well (Completion Detail Sa Grand - Waster-Usessment Plan - Final Sport (July 20, 1984) the wells installed under the supervision of a qualified
4.1	Were profes	the wells installed under the supervision of a qualified sional?
	If yes:	
	4.1.1	Indicate the individual and affiliation, if known Lee Drilling Alexandria, LA-
	4.1.2	Indicate the well construction contractor, if known Lee Drilling of Alexandria LA
4.2	List the	e number of wells at the site
	4.2.1	Pre-existing Unknown
	4.2.2	For RCRA Compliance 3 (originally) Hadditional for assistment
4.3	Well co TABLE	For RCRA Compliance This property of additional for assistment of grand water analytic and the delineate between the property of contamination (fill out INFORMATION If PVC well screen or casing is used, are joints The property of the p
	4.3.1	If PVC well screen or casing is used, are joints (couplings): of Contomination (two of Contomination) these care observation wells)
		• Glued on • Screwed on
	4.3.2	Are well screens sand gravel packed?

* Replaced or not well # 3; ich who removed from service

	WELL NO.	1	J 3:	.3*	4	T	
	GROUND ELEVATION	497.9	93'	926	87'		
	TOTAL DEPTH	55′	58′	59.1	58		
	TYPE MATERIAL	PVC	PVC	- PVC	PVC		
9	DIAMETER	4"	4"	4"	4"		
CABIN	LENGTH	47.1	49.0	150.4			
WELL CASING	STICK-UP	2.1'	1.2'	1.4'	2'		
	TOP ELEVATION	100'	94.2		84'		
	BOTTOM ELEVATION	52.91	45'	43.6'	<u> </u>		
	DEPTH TOP/BOTTOM	45 55	48'58	49 59			
	TYPE MATERIAL	PVC	PVC	PVC	PUC		
SCREEN	DIAMETER	Н"	4"	4 "	4"		
1. 8CI	LENGTH	10'	10'	10′	10'		
WELL	SLOT SIZE	0.01"	0.01"	0.01"			
	TOP ELEVATION	52.91	45'	43.6'			
	BOTTOM ELEVATION	42.91	35′	33.61			
CK	DEPTH TOP/BOTTOM						
OPEN HOLE OR AND/GRAVEL PACK	DIAMETER						
	LENGTH						
OPEA NND/C	TOP ELEVATION				+		
8	BOTTOM ELEVATION						
<u></u> -	^						

Additional monitoring and observation well construction. details are not available.

	4.3.3	summar spaces seated:	(Y/N) <u>/</u>
		If yes, describe:	
		 bentonite slurry Cement grout Other (explain) 	
		Thicknesses of seals	
	4.3.4	If "open hole" wells, are the cased portions sealed in place? $(Y/N) = N R$	
		If yes, describe how:	:
	4.3.5	Are there cement surface seals?	(Y/N) <u> </u>
		If yes,	
		• How thick? Not specified	
	4.3.6	Are the wells capped?	(Y/N) ×
		If yes,	
		• Do they lock?	(Y/N) \(\frac{\fir}{\fin}}}}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac}}}}}}}{\frac}}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{
	4.3.7	Are protective standpipes cemented in place?	(Y/N) Y
	4.3.8	Were wells developed?	(Y/N) Unknown - no
		If yes, check appropriate method(s):	records
		 Air lift pumping Pumping and surging Jetting Bailing 	,
		• Other (explain)	
5.0	Aquife	Characterization See Nov. 11, 1983 Permit	application
5.1	Has the	e extent of the uppermost saturated zone r) in the facility area been defined?	(Y/N) Y
	If yes,		
	5.1.1	Are soil boring/test pit logs included?	(Y/N) _
	5.1.2	Are geologic cross-sections included?	(Y/N) <u>/</u>

4.3.3

5.		nere evidence of confining (low permeability) rs beneath the site? (Y/N	<i>n</i> \
	If ye		'' <u>L</u>
	5.2.1	Is the areal extent and continuity indicated? (Y/N	$_{\rm p}$ \sim
	5.2.2		
	÷	If yes, give details:	
		a) Should or is this perched zone being monitored? (Y/N)	Untenorm
		Explain	
	5.2.3	What is the lithology and texture of the uppermost saturated zone (aquifer)?	
	5.2.4	What is the saturated thickness, if indicated? Not which	cafed
5.3	Were s	static water levels measured? (Y/N)	$\overline{\Sigma}$
	5.3.1	How were the water levels measured (check method(s)).	
		 Electric water sounder Wetted tape Air line Other (explain) 	No. James Lange
	5.3.2	Do fluctuations in static water levels occur? (Y/N)_ If yes,	N
		5.3.2.1 Are they accounted for (e.g. seasonal, tidal, etc.)? (Y/N)	اله
		If yes, describe:	

5.3.2.	2 Do the water level fluctuations alter the general ground-water gradients and flow directions? (Y/N)_\mathcal{V}/A
	If yes,
5.3.2.3	Will the effectiveness of the wells to detect contaminants be reduced? (Y/N)
	Explain
5.3.2.4	differentials occur that may indicate a vertical flow component in the saturated zone?
	If yes, explain
5.4 Have aquifer hy	draulic properties been determined?
If yes,	draulic properties been determined? And water Report (Y/N) (July 20, 1984)
5.4.1 Indicate	method(s):
● Fallin	ing tests g/constant head tests atory tests (explain) Attenburg (imits)
5.4.2 If determ	ined what are the
	ined, what are the values for:
 Storage 	coefficient ——
LeakagPermea	e o f
Porosit	y Longe from 1×10 cm. pec to
·	nere several tests were undertaken, were ies in the results evident?
If yes, expl	(1/N)
5.4.4 Were horized	ontal ground-water flow velocities
If yes, indic	ate rate of movement Alakai - 7 At / (Y/N) /
based on	average perneubility value) It year (estimate

B-8

6.0	Well	Performance	
6.1	Are	the monitoring wells screened in the uppermost aquifer?	(Y/N) \
	6.1.1	Is the full saturated thickness screened?	(Y/N) N
	6.1.2	For single completions, are the intake areas in the: (check appropriate levels)	· ·
		 Upper portion of the aquifer Middle of the aquifer Lower portion of the aquifer 	/-
	6.1.3	For well clusters, are the intake areas open to different portions of the aquifer?	(Y/N) N/A
	6.1.4	Do the intake levels of the monitoring wells appear to be justified due to possible contaminant density and groundwater flow velocity?	
7.0	Groun	d-Water Quality Sampling See facility's Permit applicas	tim
	Is a sa include	mpung (groundwater quality) program and schedule	× /
.2	Are sa	mple collection field procedures clearly outlined?	(Y/N) / (Y/N)
	7.2.1	How are samples obtained: (check method(s))	(1/N) <u> </u>
		 Air lift pump Submersible pump Positive displacement pump Centrifugal pump Peristaltic or other suction-lift pump Bailer 	
		• Other (describe)	codes Lux nambles
7.	.2.2	Are all wells sampled with the same equipment and	two displacement
	•	If no, explain Not specified in the sum	Y/N) <u>In inoun</u>
7.5		Are adequate provisions included to clean equipment after ampling to prevent cross-contamination between vells?	(N) Unknown
		\	7-17

			₩.	1
	7.2.4	Are org	anic constituents to be sampled?	(Y/N)
		If yes,		
	·	7.2.4.1	Are samples collected with equipment to minimize absorption and volatilization?	(Y/N) NA
			If yes,	
			Describe equipment	· .
8.0	-		ation and Handling letter film John Buil He personnel in sampling to	You also see Feb 12, 198 Collect Instruction Colfax Shipment methods.
8.1	proced	lures been	followed (filtration and preservation	` \/
		appropria		(Y/N) / ffer samp
8.2	Are sa	imples ref	rigerated?	(Y/N) / Probe
8.3	Are El adhere		mended sample holding period requirements	(Y/N) Unlinoun (Sample Shippe
8.4	Are su	itable cor	ntainer types used?	(Y/N)
8.5			nade to store and ship samples under (ice packs, etc.)?	(Y/N) N (Sec 8.7.1)
8.6	Is a ch	ain of cus	tody control procedure clearly defined?	(Y/N) N (Su 8.1.1)
8.7	Is a sp	ecific cha	in of custody form illustrated?	(Y/N) <u> </u>
	If yes,			
	8.7.1	sample	s form provide an accurate record of possession from the moment the sample until the time it is analyzed?	(Y/N) M Curtody cont
9.0	Sample	e Analysis	and Record Keeping	1100000
9.1	Is sam	ple analys	sis performed by a qualified laboratory?	(Y/N) <u> </u>
	Indicat	te lab	Savannah Labs, Inc. + Ball Engineen	ra Inc.
9.2	Are an	alytical n	nethods described in the records?	(Y/N)
	9.2.1	Are ana	lytical methods acceptable to EPA?	(Y/N) / Most param
9.3	Are th		drinking water suitability parametters	(Y/N) N (were not test for during the first year
9.4	Are th	e required	d groundwater quality parameters tested for?	(Y/N) During granter of fire year however in another the most of t
				B-10
				•

**				(D - P)
9	.5 Ar pai	e the required groundwater contamination indicator rameters tested for?	(Y/N) N	of montering for analyzed only for
9.	.6 Ar	e any analytical parameters determined in the field?	(Y/N)	Condi
		ntify:	(I/N)/	
	•	pH Temperature Specific conductance Other (describe)		_
9.7	7 is a	plan included to record information about each sample ected during the groundwater monitoring program?	(Y/N) \	
	9.7.1	Are field activity logs included?	(Y/N) \(\frac{1}{\frac{1}{2}}	•
-	9.7.2	Are laboratory results included?	(Y/N) N	•
	9.7.3	Are field procedures recorded?	(Y/N)	
	9.7.4	Are field parameter determinations included?	(Y/N) \\	temperature only
	9.7.5	Are the names and affiliation of the field personnel included?	(Y/N) Y	
9.8	Are si qualit	tatistical analyses planned or shown for all water y results where necessary?	(Y/N) /	
	9.8.1	Is an analysis program set-up which adheres to EPA guidelines?	(Y/N) Ý	
	9.8.2	Is Student's t-tost	(Y/N) <u>/</u>	
9	9.8.3	Are provisions made for submitting analysis reports to the Regional Administrator?		
10.0 <u>s</u>	ite Ve	1.	Y/N)	
10.1 P	Plot Pla ompon aters?	an indicating the locations of various facility sents, ground-water monitoring wells, and surface	\ /	
1(0.1.1	Is the plot plan used for the inspection the same as in	(/N) / /	
		If not, explain	/N) <u>'</u>	

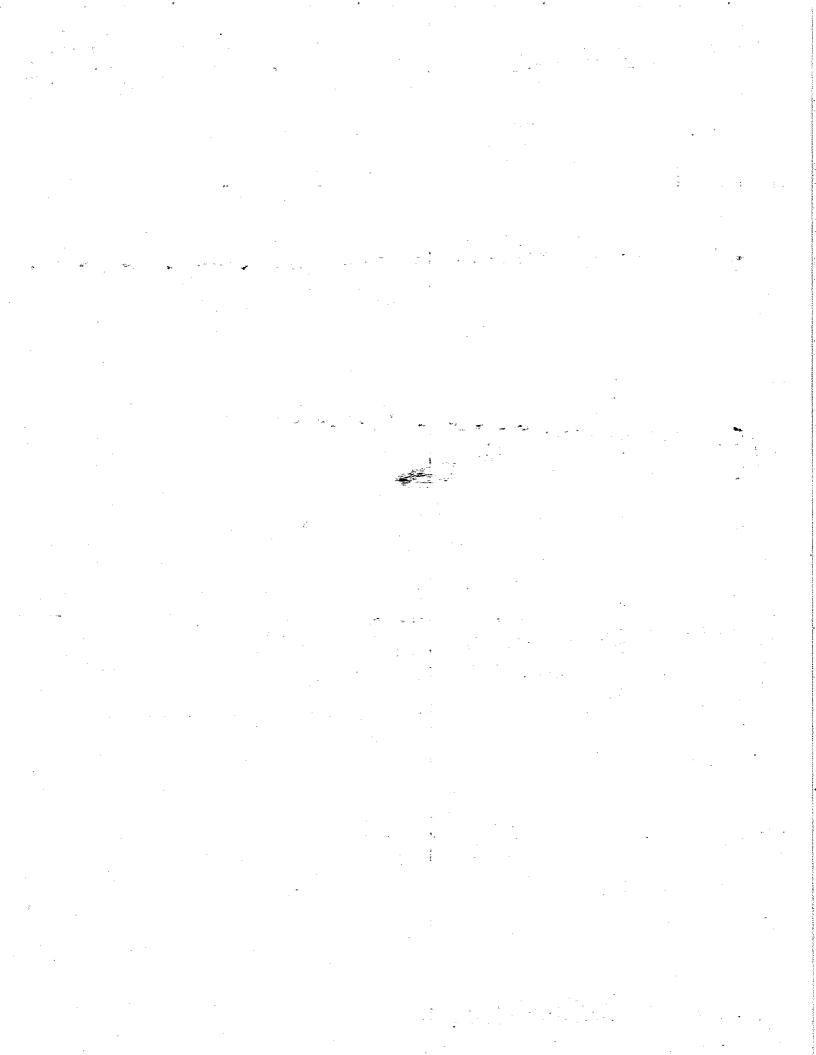
10.1.	Are all of the components of the facility identification during the inspection addressed in the monitoring documentation?	fied og program (Y/N)
	If not, explain	
10.1.3	Are there any streams, lakes or wetlands on or adjacent to the site?	(Y/N) \
	If yes, indicate distances from waste management Stream immediately adjacent	
10.1.4	Are there any signs of water quality degradation evident in the surface water bodies?	(Y/N) N
_	If yes, explain	
10.1.5	Is there any indication of distressed or dead	
	vegetation on or adjacent to the site? If yes, explain	(Y/N) <u>\</u>
10.1.6	And About the same of the same	
	features on or near the site (e.g., recharge or discharge areas)?	(Y/N) N
	If yes, explain	
10.1.7	Are the monitor well locations and numbers in agreement with the monitoring program documentation?	(Y/N) <u>\</u>
	If no, explain	·
•	10.1.7.1 Were locations and elevations of the morwells surveyed into some known datum?	(Y/N) Y
	If not, explain John Ball apparently a map to locate a 100' Contour live track. as the nautroad track is, well sites, Ball used the 100' e	near the railroad
	baseline datum.	levation as the B-12

	10.1.7.2	Were the wells sounded to determine total depth below the surface?	(Y/N) _
		If not, explain	
	10.1.7.3	Were discrepancies in total depth greater th two feet apparent in any well? If yes, explain	(Y/N)
		II yes, explain	
10.1.8	Was grou wells?	nd water encountered in all monitoring	(Y/N) Y
	If not, inc	licate which well(s) were dry	
10.1.9	Were wat	er level elevations measured during the site	(Y/N)
	If yes, ind	icate well number and water level elevation_	
	If not, exp	lain	

APPENDIX C

GROUND-WATER QUALITY ASSESSMENT PROGRAM INFORMATION FORM

	Company Name: Colfax Creosoting Co.; EPA I.D.#: LA DOOS 184616 Company Address: P.O. Box 231				
	• •	Pineville, LA 71360 Tame: E. Fernandez-Obregon; Date: 9/10/44			
<u>1.0</u>	Backgro	und			
1.1	List the waste m if necess	constituents (contaminants) originating from the anagement area: (use separate sheet creosote			
1.2		e concentrations of the hazardous waste or hazardous onstituents shown significant increases in:			
		radient monitoring wells (Y/N) Y			
1.3	Were th	List or indicate on a map, the wells which have shown significant increases: (use separate sheet if necessary) for the 2,1984 Sampling round; all wells. Showed pt increases; well 3 Showed increase in specific and others. (Ilso, Tox values in all wells were higher than background levels. e significant increases in contaminant concentration ned through the use of the student's t-Test? (Y/N)			
	If no,	Explain procedure used			
1.4	Has the	possibility of error (e.g., laboratory) been eliminated? (Y/N) N Explain Additional Samples Collected Solit in			
		two on were never obtained to venty			



2.0	Contan	ninant Characteristics				
2.1	If available, list the chemical and physical properties of the contaminants which have been detected in the ground water: (density, solubility, etc.). Include on a separate sheet if list is extensive In repats, however, the Creosale has a high					
	1	reports; however, the crossode has a high				
	4	pecific gravity.				
3.0		entation of the Assessment Program				
3.1	Has the	e extent of the migration of hazardous waste or ous waste constituents been determined? (Y/N)				
	If yes,					
	3.1.1	Indicate how: (check appropriate method(s))				
		additional ground-water monitoring wells				
		 geophysical methods computer simulation other, explain 				
3.2	Were n	nonitoring wells installed? (Y/N)				
	If yes,					
	3.2.1	Record monitoring well/peizometer See Table B-1 completion data on INFORMATION TABLE for available information on monitoring wells.				
	3.2.2	Were well clusters (nests) used or were wells with multiple intake areas constructed? Give details				
	3.2.3	Show the numbers and locations of the additional Not available in the wells/peizometers on a site map. State records.				
	3.2.4	Are the locations of the wells/piezometers justified in view of the water table or potentiometric surface map? Give details * However, the locations of the additional adequation wells are not delineated on any map; hera, the adequacy of the locations of				
		these wells could not be determined.				

WELL NO.		,				
GROUND ELEVATION						
TOTAL DEPTH						
TYPE MATERIAL						
DIAMETER						
LENGTH						
STICK-UP						
TOP ELEVATION						
BOTTOM ELEVATION						
DEPTH TOP/BOTTOM						
TYPE MATERIAL						
DIAMETER						
LENGTH						
SLOT SIZE	_	·				
TOP ELEVATION	,					
BOTTOM ELEVATION						
DEPTH TOP/BOTTOM						
DIAMETER				_		
LENGTH						
TOP ELEVATION						
BOTTOM ELEVATION					,	
	GROUND ELEVATION TOTAL DEPTH TYPE MATERIAL DIAMETER LENGTH STICK-UP TOP ELEVATION BOTTOM ELEVATION TYPE MATERIAL DIAMETER LENGTH SLOT SIZE TOP ELEVATION BOTTOM ELEVATION DEPTH TOP/BOTTOM SOTTOM ELEVATION DIAMETER LENGTH BOTTOM ELEVATION DEPTH TOP/BOTTOM DIAMETER LENGTH TOP ELEVATION	WELL NO. GROUND ELEVATION TOTAL DEPTH TYPE MATERIAL DIAMETER LENGTH STICK-UP TOP ELEVATION BOTTOM ELEVATION TYPE MATERIAL DIAMETER LENGTH SLOT SIZE TOP ELEVATION BOTTOM ELEVATION DEPTH TOP/BOTTOM DEPTH TOP/BOTTOM DEPTH TOP/BOTTOM DIAMETER LENGTH TOP ELEVATION	WELL NO. GROUND ELEVATION TOTAL DEPTH TYPE MATERIAL DIAMETER LENGTH STICK-UP TOP ELEVATION BOTTOM ELEVATION TYPE MATERIAL DIAMETER LENGTH SLOT SIZE TOP ELEVATION BOTTOM ELEVATION DEPTH TOP/BOTTOM DEPTH TOP/BOTTOM DIAMETER LENGTH DIAMETER LENGTH DIAMETER LENGTH TOP ELEVATION	WELL NO. GROUND ELEVATION TOTAL DEPTH TYPE MATERIAL DIAMETER LENGTH STICK-UP TOP ELEVATION BOTTOM ELEVATION TYPE MATERIAL DIAMETER LENGTH SLOT SIZE TOP ELEVATION DEPTH TOP/BOTTOM DEPTH TOP/BOTTOM DIAMETER LENGTH DIAMETER LENGTH DIAMETER LENGTH DIAMETER LENGTH DIAMETER LENGTH TOP ELEVATION	WELL NO. GROUND ELEVATION TOTAL DEPTH TYPE MATERIAL DIAMETER LENGTH STICK-UP TOP ELEVATION BOTTOM ELEVATION TYPE MATERIAL DIAMETER LENGTH SLOT SIZE TOP ELEVATION DEPTH TOP/BOTTOM BOTTOM ELEVATION DIAMETER LENGTH DIAMETER LENGTH TOP ELEVATION	WELL NO. GROUND ELEVATION TOTAL DEPTH TYPE MATERIAL DIAMETER LENGTH STICK-UP TOP ELEVATION DEPTH TOP/BOTTOM TYPE MATERIAL DIAMETER LENGTH SLOT SIZE TOP ELEVATION DEPTH TOP/BOTTOM DEPTH TOP/BOTTOM DIAMETER LENGTH DIAMETER LENGTH DIAMETER LENGTH DIAMETER LENGTH DIAMETER

	V
	piezometers justified due to the relative characteristics (e.g., densities) of the contaminants? (Y/N)
	Give details The monitoring wells are screened
	at the lower portion of the laquifer because
	creosole's specific annity is greater than that of
	Water
3.2.6	List any other methods (e.g., soil sample analysis)
	used to document the extent of the contamination.
	(use separate sheet if necessary)
	/ A
Has th	e rate of contaminant migration been determined? (Y/N)
If was	what is it and how was it determined? The rate of grama will
n yes,	WHAT IS IT TO IT T
Marie	WHAT IS IT TO IT TO STATE OF THE STATE OF TH
More	ment has been determined (calculated); however the
more	ment has been determined (calculated); however the
more	ment has been determined (calculated), however the
more	ment has been determined (calculated), however the of creosofe migration will be different since its specifity is higher than that it water. Does the rate of migration differ for various (Y/N) N/F
more	ment has been determined (calculated), however the of creosofe migration will be different since its specifity is higher than that it water. Does the rate of migration differ for various
more	ment has been determined (calculated); however the of creosofe migration will be different since its specifity is higher than that the pater. Does the rate of migration differ for various contaminants? Give details The contaminant of (Y/N) N/F
more	ment has been determined (calculated), however the of creosofe migration will be different since its specifity is higher than that it water. Does the rate of migration differ for various
more	ment has been determined (calculated); however the of creosofe migration will be different since its specifity is higher than that the pater. Does the rate of migration differ for various contaminants? Give details The contaminant of (Y/N) N/F
more	ment has been determined (calculated); however the of creosofe migration will be different since its specifity is higher than that the pater. Does the rate of migration differ for various contaminants? Give details The contaminant of (Y/N) N/F
More Yak Grav 3.3.1	ment has been determined (calculated); however the of creosofe migration will be different since its specific is higher than that the water. Does the rate of migration differ for various contaminants? Give details The contaminant of Concern is creosote.
more	ment has been determined (calculated); however the of creosofe migration will be different since its specific its higher than that the order. However the Does the rate of migration differ for various contaminants? Give details The contaminant of Concern is creosofe. If known, what is the cause (reason) of (for) this
More Yak Grav 3.3.1	ment has been determined (calculated); however the of creosofe migration will be different since its specific is higher than that the water. Does the rate of migration differ for various contaminants? Give details The contaminant of Concern is creosote.
More Yak Grav 3.3.1	ment has been determined (calculated); however the of creesofe migration will be different since its specific its higher than that it water. However the Does the rate of migration differ for various contaminants? Give details The contaminant of Concern is creesofe. If known, what is the cause (reason) of (for) this

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Supertion

DATE: 12/20/83

SUBJECT: Transmittal Memo - Compliance Monitoring Inspection Report

FROM: Holly Ardenson (Inspector)

Dave Peters, Chief Hazardous Waste Section (6ES-SH)

A compliance monitoring inspection was conducted on ///4/83

at the following location:

Name: Colfax Crosotring

Address: Pinantle JA

EPA I.D. Number: 14D 008/1846/6 NPDES Permit No.

Type of inspection: Joint (V)

Lead ()

Nonmunicipal (Nonmunicipal (V)

Comments:

Photographs and photo log Sent as
abderdum to report transmitted 11/22/83.

Compliance Monitoring Reports Attached: TSCA () RCRA ()

COLFAX CREOSOTING LAD 008184616

#1/4

Photo log

photo #1 monitoring well #1

#2 monitoring well #2 | locked caps, equipment quards,

#3 monitoring well #3 | concrete pade (photo 4 shows how

#4 close-up of monitoring well #3) we dug away dut to expose

concrete pad

Photo # 5 security sign at impoundment

photo #6) series of photos taken along are side of impounding #7 from far left to far right, showing entire #8 impoundment #9

photo #12 this photo was taken wear pump station at the impoundment to show a break in Security along the fence line; famility says the fence is open here to allow service personnel access to the pump and the piping. This could possibly allow unanthorized access to the part.

photo \$13 process area photo showing dut work in spocess - beginning work on concreting process areas

photo #14 process tanks

photo #15 pocess tank - this shows an example of new retainer walls being built around process tanks

	discharged/released HW constituents? If so, corrective action initiated?	le. In assessment? If so, report filed?	A significant increase paramet	7. Date of Cartification of Closure	6. Tate of approval of closure plan	5. Date hazardous waste ceased to be accepted	4. Inte company plans to chose	3. Approximate date of scheduled EPA inspection	2. Date of last state inspection	1. Date of last EM inspection	 Date of antidipated or actual Part B receipt (Indicate date first received and date completed) 	9. What actions are planned during the remainder of Piscal year 1983?	 Bas facility ever taken waste from Superfund site? If mp, when? 	to date (e.g., Norice of Violation, 3008 order, 3013 order, referral to Department of Justice or Attorney General (if state), Indicate the date of any such action.	to be reviewed (25, 26)? Date, granted, if applicable	5. Dates of directives to company to modify 264 system		1	Are the wells adequate? why not?	is in place? If no	THE SOO COR !
Office Water +	48 NO	hes hes 1/2/84	YES 10/7/83			1000000	1994	Not Schodiled	- 1-1-1-1	Marke	18-0-0	7009	Ū'o	A.D. 10-4-83 OUT CLASS IN A.D. 10-4-84 CC/pc) CLOSS IN A.D. 60- Z6-84 OUT - DON SCHLOUGH	20	Hone	18-92-21 GON	None		<u>√</u> G S	

SUBJECT:

Transmittal Memo - Compliance Monitoring Inspection Report

FROM:

Holly Orderso (Inspector)

TO:

Dave Peters, Chief Hazardous Waste Section (6ES-SH)

A compliance monitoring inspection was conducted on

at the following location:

Name: Colfax Creosoting Company Address: POBOX 231 Wedley Road Pineville LA NPDES Permit No. EPA I.D. Number: LAD 008 184616 Type of inspection: Joint (X) Type of facility: Federal (Nonmunicipal (X)Municipal Compliance Monitoring Reports Attached: TSCA ()

Comments:

No grandwater monitoring water levels were taken during this inspection. State facility personnel were not prepared and EPA egripment was not available yet.

Photographs were taken and will be forwarded as an adden dum after developing.

DATE: 1 2283 UNITED ATES ENVIRONMENTAL PROTECT. N AGENCY

SUBJECT:

RCRA Compliance Monitoring Inspection Reports

FROM:

David Peters, Chief JANGACO. Hazardous Waste Section (6ES-SH)

TO:

Gerald Fontenot, Chief Enforcement Section (6AW-HE)

The attached RCRA Compliance Monitoring Inspection Reports have been prepared and reviewed by Environmental Services (6ES) and are being forwarded to you for your information and action.

Facility

EPA I.D. No.

Apparent Violation

<u>Yes</u>

No

COLFAX CREOSOTING CO. LADOOS 184616

The following attachments are included in this report:

1. Closure plan

z. que quality accessment plan outline

3 regional site map

4. site contour map

5. regional water wells map + info.

6. site well map

7. boring hole map

8. Substir face investigation packet

9. boring hole logs and test results

10. sampling plan

Nok: Copies of these attachments will not be kept in Env. Services Di

RCRA INSPECTION

5/9/83-

I. SITE IDENTIFICATION

	·	LADOOS	184616
A. Site Name			other identifier)
Colfax Creasing Comp	any !	Po Box 231	Wadley Roy of
C. City	O. State	E. Zip Code	Wadley Road F. County Name
Pinercle	AA.	7/360	•
G. Site Operator Information			•
1. Name		2. Telephone	Number
Roy O. Mastri Lumb	ber Company	318 - 4	42-2467
3. Street	4. City	5. State	6. Zip Code
PO BOX 1110	Alexandria	ZA	7/301
H. Site Description			
pole teating - Surface	impandment	<u> </u>	
I. Latitude \degminsec.)	·	Longitude (deg	insec.l
J. Type of Ownership			
1. Federal2. Sta	te3. County	4. Municipal	X_5. Privata
		·	
K. $\times 1$. Generator2. Tra	nsporter3. Trea	tment $X4$. Stor	age5. Disposal
•			
	INSPECTION INFORMA	TION	
A. Principal Inspector Informa	tion	· .	•
1. Name	_	2. Title	• •
Tom Patterson	<u>En</u>	u Protection	Specialist
3. Organization		4. Telephone No.	(area code & No.)
LA DNR	<u> </u>	504- 342	-1227
3. Inspection Participants	•		
Holly anderson - EP	A		
Chide Monton - Co			
Carl Johnson - C	_		
John Ball - Engine		t to colf	
- Your Janes	J	4 10 0011	

RCRA COMPLIANCE INSPECTION REPORT GENERATORS CHECKLIST

Note: On multiple part questions, circle those not in compliance.
Section A - EPA Identification No.
1. Does Generator have EPA I.D. No.? (262.12 - EPA I.D. No.) Yes No
a. If yes, EPA I.D. No. LADOO8184616
Section B - Hazardous Waste Determination
 Does generator generate hazardous waste(s) listed in Subpart D (261.30 - 261.33 - List of Hazardous Waste)?
a. If yes, list wastes and quantities on attachment (Include EPA Hazardous Waste No.) Kool - Bottom Sediment of wastewayers (Provide waste name and description.) from the freatment of wastewayers. 2. Does generator generate solid waste(s) that exhibit hazardous or pentschloroph characteristics? (corrosovity, ignitability, reactivity, EP
toxicity) (251.20 - 261.24 - Characteristics of Hazardous waste.)
Yes No
a. If yes, list wastes and quantities on attachment. (Include EPA NIA Hazardous Waste No.) (Provide waste name and description)
b. Does generator determine characteristics by testing or by applying knowledge of processes?
 If determined by testing, did generator use test methods in Part 261, Subpart C (or Equivalent)?
 If equivalent test methods used, attach copy of equivalent methods used.
3. Are there any other solid wastes deemed non-hazardous generated by generators? i.e.(process waste streams, collected matter from air pollution control equipment, water treatment sludge, etc.)
Yes V No
a. If yes, did generator determine non-hazardous characteristics by testing or knowledge of process?
1. If determined by testing, did generator use test methods in Part 261, Subpart C (or Equivalent)? Yes No
 If equivalent test methods used, attach copy of equivalent methods used.
b. List wastes and quantities deemed non-hazardous or processes from which non-hazardous wastes were produced. (Use narrative explanations sheet.)

NIA

Section C - Manifest

1.	(Subpart B - The Manifest)	Yes	J
	a. If no, do not fill out Section C and D.	_	MO
	 b. If yes, identify primary off-site facility(s). Inarrative explanations sheet.) 	Use	
2.	Has generator shipped hazardous waste off-site since November 19, 1980?	Va.	
3.	Is generator exempted from regulation because of:	Yes	NO
	Small quantity generator (261.5 - Special requirement	.s)	
	<u>OR</u>	Yes	No
	Produces non-hazardous waste at this time (261.4 - Exclusions)	Yes	No.
4.	If not exempted does generator use manifest? (262.20 - General requirements)	Yes	No
	.a. If yes, does manifest include the following information (262.21 - Required information) (Break up items or circle ones not on manifest)		110
	 Manifest Document No. 	Yes	No
	2. Generators Name, Mailing Address, Tele. No.	Yes	_
	3. Generator EPA I.D. No.	Yes	
, -	4. Transporter(s) Name and EPA I.D. No.	Yes	
	 a. Facility Name, Address and EPA I.D. No. 		_
	6. DOT description of the waste	Yes	No
		Yes	No
	b. Containers (type and number)	Yes Yes	No No
	 Emergency Information (optional) (special handling instructions, Phone No.) 	Yes	No

		9.	Is the following certification on each manifest form?	Yes	· No
			This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the EPA.	,	
5.	Does	gene	rator retain copies of manifests?	Yes	No
		1 63 63	mpleted manifests at random. Indicate how many were inspected, how many violations were noted ype of violation.)	-	
	If y item	es, c	omplete a through e. If questions contain more than the those not in compliance. (263.23 Use of the Mar	n one nifest)	
	a.	(1)	Did generator sign and date all manifests inspected?		
		(2)	THE PARTY OF THE P	itle	No
	b.		Did generator obtain handwritten signature and date of acceptance from initial transporter? Who signed and dated for transporter? Name	YesTitle	
	c.	Does gener	generator retain one copy of manifest signed by rator and transporter?	Yes	_
	d.	Do re	eturned copies of manifest include facility /operator signature and date of acceptance?	Yes	
	e.	TJ UC	ppy of manifest from facility was not returned withings, did generator file an exception report? 42 - Exception reporting)		
		(1)	If yes, did it contain the following information		
			Legible copy of manifest	Yes	No
			Cover letter explaining generators efforts to locate waste.	Yes	No
	f.	Does	(will) generator retain copies for 3 years?	Yes	— No

1.	Does generator package waste?	Yes	J 40
	If no, skip the rest of Section D. If yes, complete the following questions.		
2.	Does generator package waste in accordance with 49 CFR 178, and 179? (DOT requirements) (262.30 - Packaging)	: 173 Yes	No
	 Inspect containers to be shipped. a. Are containers to be snipped leaking or corroding or bulging? b. Use narrative explanations sheet to describe contained and condition. 		
	c. Is there evidence of heat generation from incompatible wastes in the containers?	Yes	No
•	Does the generator use DOT labeling requirements in accordance with 49 CFR 172? (262.31 - Labeling)	Yes	No
•	Does the generator mark each package in accordance with 49 CFR 172? (262.32 - Marking)	Yes	No
•	Is each container of 110 gallons or less marked with the following label? (262.32 - Marking)	Yes	No
	Label saying: <u>HAZARDOUS WASTE</u> - Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U.S. Environmental Protection Agency.		
	Generator's Name and Address		
	Manifest Document Number		
	If there are any vehicles present on site loading or un waste, inspect for presence of placards. Note this insexplanation sheet.	loading hazar tance on harr	dous ative
	Accumulation Time (262.34 - Accumulation Time) a. Is facility a permitted storage facility?	Yes	No
	If yes, skip to question #9. If no, answer rest of question #8.	, ' ,	_
	b. Is hazardous waste shipped offsite within 90 days?	Yes	_ No
	c. Are containers used to store waste?	Yes	_ _ No
	(1) Is the beginning date of accumulation time clearly indicated?	Yes	- No

RCRA COMPLIANCE INSPECTION REPORT TSD FACILITIES CHECKLIST

Section	A -	General	Faci'	litv	Standard	ře
				,,,,	בכמווטמו נ	. >

1.	Doe:	s facility have EPA Identification No.? (265.11 - Identi-	✓ Yes	No
	Α.	If yes, EPA I.D. No. LADOO8184616 If no, explain		
2.	Has sout	facility received hazardous waste from a foreign rce? (265.12 - Required notices)	Yes	√ No
	A.	If yes, has he filed a notice with the Reg. Admin.		NoN/A
Was		nalysis		
3.	Does (265	the facility have a written waste analysis plan?	_✓ Yes _	No
	Α.	If yes, is a copy maintained at the facility?	✓ Yes _	- · · · · ·
	В.	If no, question #4 not applicable.		 ::
4.		es, does it include:		
	Α.	Parameters for which each waste will be analyzed?	✓ Yes _	No
	В.	Test methods used to test for these parameters?		
•		Sampling method used to obtain sample?	✓ Yes	 ·
	D.	Frequency with which the initial analysis will be reviewed or repeated?	✓ Yes _	
•		1. If yes, does it include requirements to re-test when the process or operation generating the waste has changed?	✓ Yes	
-	٤.	(For off-site facilities) Waste analyses that generators have agreed to supply?	Yes	Ala _{on}
	F.	(For off-site facilities) Procedures which are used to inspect and analyze each movement of hazardous waste including:		- 11A
•		 Procedures to be used to determine the identity of each movement of waste? 	Yes	No
		2. Sampling method to be used to obtain representative sample of the waste to be identified?	Yes	_ No V
				– v

5.	Does the facility provide adequate security to minimize the possibility for the unauthorized entry of persons or livestock onto the active portions of the facility? (265.14 - Security) Yes No
	If no, describe inadequacies. (Use narrative explanations sheet.)
	If yes, is security provided through:
	A. 24-hour surveillance system? (e.g. television monitoring or guards) Not: there are personnel working on the six, but Yes No OR not continuously in important area roving guards come on duty in the evening B. 1. Artificial or natural barrier around facility (e.g. fence or fence and cliff)? Describe type of security 3-Stand fence around important - fence is not continuous - there is an opening in the fence at the
	2. Means to control entry through entrances (e.g. attendant, television monitors, locked entrance, controlled roadway access)? Describe type of security. entire plant is then - fence around impoundment does not have gates, only exercise at pump mentioned above, this does not have security system.
6.	Is a sign with the legend, "Danger-Unauthorized Personnel Keep Out," posted at the entrance to the active portion of the facility? Yes No
	Is it written in English and legible from at least 25 feet? Yes No
	(NOTE: The sign must be written in any other language predominant in the area surrounding the facility (e.g. In New Mexico and Texas areas bordering Mexico, the sign must be in Spanish).
If Kee	an existing sign with a legend other than "Danger-Unauthorized Personnel Dut," what does that legend say?
Gene	eral Inspection Requirements

A. Does the owner/operator maintain a written schedule for inspecting: (265.25 - General Inspection Requirements)

Ó

		1.	Monito	ring eq	uipmer	nt? (If	applicab	le) (wells)	√	Yes	No	
		2.	Safety	and em	ergeno	y equip	ment?				Yes		
		3.	Securit	y devi	ces?						Yes		
		4.	Operati	ng and	struc	tural e	quipment	(if appli	cable)			No N/4	
		5.	Does th	e sche	dule o	r nlan	identifu	the types			Yes		
			Sam	h hamb	, reak	ing fit	ration (eting, eros, etc.)	e.g. inope oding dike	rative ,		Yes		
			b. Ope	rator	error						Yes	_	
			c. Dis joi	charge: nt brea	s (e.g aks, e	. leaks tc.)	from val	lves or pi	pes	_	Yes		
	B. I:	sa ne f	written facility	schedu ?	ule fo	r these	inspecti	ons mainta	ained a	at 🗸	Yes	No	
	1	l	Are the	se insp	pection	ns condi	ucted?				 Yes		
•	•		a. Is in	a recor the ins	d of topection	these ir on log?	nspection	ıs maintair	ned		Yes		
3.	Does th (265.15	ie o	wner/op General	erator Inspec	have a	an inspe Requirem	ection lo ments)	g?			res		
-	A. If	ye	s, does	it inc	lude:								
	1	. Di	ate and	time o	finsp	ection?	,			<u> </u>	res	No	
٠	2	- 1	Name of	inspec	tor?	(init	ials)						
	3	. 1	Notation	of ob	servat	ions?			ı		es		
	4	. [Date and	l natur	e of r	epairs	or remed	ial action	?	<u>✓</u> Y		No	
	611	C 11	here any nspectio explanat	ni tog i	tnat r	emain u	her defi ncorrect	ciencies n ed? (Use n		n	es 🗸	 No	
	C. Ar fa	e re cili	ecords o	f the three	inspec (3) ye	tion lo ars?	g mainta	ined at th	e			No	
							and the second s						

, מ	rson	fan	Train in the form of a Train in the form of a Train in the field at the work state on regulations and emergency processe owner operator maintain a personnel training pro-	discus.	simo	held	
9.	Doe	s th	on regulations and energency processes owner operator maintain a personnel training of	lives.	naud	es trav	n
		ė	••	ogram:	Yes _	No	
	Λ•	1.	yes, Is the program directed by a person trained in h waste management procedures?	azardous	Yes	No	
		2.	Is the program designed to prepare employees to effectively to hazardous waste emergencies?	respond	Yes		
	١	3.	Is a training review given annually?		Yes		
	В.	Doe	s the owner/operator keep the following records:				
	•		job title and written job description of each position?		Yes	_ No	
			description of the type and amount of introductor and continuing training?	·	Yes	_ No	
	с.	3. Are	documentation that training has been given to employees? Having sheet Kept on each empory mame/date of fraining and employee these records maintained at the facility?	layer 1 signat	Yes Yes	_ No _ No	
			ts for Ignitable, Reactive or Incompatible Waste				
10.	Doe (26	es fa 55.17	ecility handle ignitable or reactive wastes? 7 - Ignitable, Reactive, Incompatible Wastes)	Yes	/ _ No		
			e appropriate type(s) of waste(s).			11	
	Α.	sm fr me	yes, is waste separated and confined from ources of ignition or reaction, (open flames, toking, cutting and welding, hot surfaces, rictional heat) sparks (static, electrical or echanical), spontaneous ignition (e.g. from eat producing chemical reactions) and radiant eat?				
	В.	Are des	smoking and open flame confined to specifically ignated locations?	Yes _ Yes	No		A CONTRACTOR OF THE PROPERTY O
	C.	Are ign	"No Smoking" signs posted in hazardous areas whe itable or reactive wastes are handled?	re Yes	No		
11.	Che	ck c ible	ontainers (265.17 - Ignitable, Reactive, Incom- Wastes)	į			
	. A.	(U	e containers leaking or corroding or bulging? se narrative explanation sheet to explain ontainers in this condition.)	Yes	No		
	В.	If exp	s the facility ever placed incompatible wastes gether? yes, what were the results? (Use narrative planation sheet). (Look for signs of mixing of compatible wastes. e.g., fire, toxic mist, heat neration, bulging containers. etc.)	Yes	_ No	J	A Company of the Comp

Section B - Preparedness and Prevention

1.	the faci	there evidence of fire, explosion or contamination of environment? (265.31 - Maintenance and operation of lity) See attachment	ef Yes _ v	_ No
If	yes,	use narrative explanations sheet to explain.		
2.	Is t	the facility equipped with (265.32 - Required equipm	ent)	
	Α.	Internal communications or alarm system?		_ No
		1. Is it easily accessible in case of emergency?	✓ Yes _	No
	B 🗸	Telephone or two-way radio to call emergency response personnel?	✓ Yes	No
	c. (Portable fire extinguishers fire control equipment spiil control equipment and decontamination equipment?	✓ Yes _	
		1. Is this equipment tested to assure its proper operation?	✓ Yes	
	D.	Water of adequate volume for hoses, sprinklers or water spray system? 1. Describe source of water	<u> </u>	_ No
	4.	2. Indicate flow rate and/or pressure and storage capacity if applicable	igh bre	mes
3.	aisle	nere sufficient aisle space to allow unobstructed ment of personnel and equipment? (e.g. adequate space in between barrels to check for leakage, osion and proper labeling, etc.) (265.35 - Required space)		
	41311			
		: space)	_ ✓ Yes	No
4.	the fous w	the owner/operator made arrangements with the local prities to familiarize them with characteristics of facility? (layout of facility, properties of hazard waste handled and associated hazards, places where ity personnel would normally be working, entrances		_ No
4.	the 1 ous w facil	the owner/operator made arrangements with the local prities to familiarize them with characteristics of facility. Properties of hazard		
:	the income to recommend to reco	the owner/operator made arrangements with the local prities to familiarize them with characteristics of facility? (layout of facility, properties of hazard easte handled and associated hazards, places where ity personnel would normally be working, entrances eads inside facility, possible evacuation routes.) 37 - Arrangements with local authorities)		No
:	the income to recommend to reco	the owner/operator made arrangements with the local prities to familiarize them with characteristics of facility? (layout of facility, properties of hazard easte handled and associated hazards, places where ity personnel would normally be working, entrances eads inside facility, possible evacuation routes.) 37 - Arrangements with local authorities)		• • • • • • • • • • • • • •
:	the income to recommend to reco	the owner/operator made arrangements with the local prities to familiarize them with characteristics of facility? (layout of facility, properties of hazard waste handled and associated hazards, places where ity personnel would normally be working, entrances bads inside facility, possible evacuation routes.) 37 - Arrangements with local authorities)		No

5.	In the case that more than one police or fire department might respond, is there a designated primary authority? (265.37 - Arrangements with local authorities) Yes No
	If yes, indicate primary authority Principle City Fire Dept.
	A. Is the fire department a city or volunteer fire department?
6.	Does the owner/operator have phone numbers of and agreements with State emergency response teams, emergency response contractors and equipment suppliers? Are they readily available to the emergency coordinator? Yes No No
(26	5.37 - Arrangements with local authorities) Yes No
7.	Has the owner/operator arranged to familiarize local Ropides Muncul hospitals with the properties of hazardous waste handled and types of injuries that could result from fires, explosions, or releases at the facility? Yes No
	If no, has the owner/operator attempted to do this? Yes Yes No A
(26	5.37 - Arrangements with local authorities)
8.	If the State, or local authorities decline to enter into the above referenced agreements, has this situation been entered in the operating record? (265.37 - Arrangements with local authorities) Yes No
<u>Sec</u>	tion C - Contingency Plan and Emergency Procedures
1.	Does the facility have a contingency plan? (265.52 Content of Contingency Plan) Yes No
	A. If yes, does it contain:
	1. actions to be taken in response to emergencies? 2. description of arrangements with police, fire and hospital officials? 3. list of names, addresses, phone numbers of persons qualified to act as emergency coordinator? 4. list of all emergency equipment at the facility? Yes No No Yes No Yes No Yes No No Yes No
2.	Is a copy of the contingency plan maintained at the facility? (265.53 - copies of contingency plan) Yes No
3.	Has a copy been supplied local police and fire depts.? (265.53 - Copies of contingency plan) Yes No

* 5. There is a sentence in the contingency plan that reads: There is no need for an evacuation plan at this famility." Representatives feel evacuation nowers are plainly visible to casual observers.

					=		
		()	7				
4.	Is the plan contingency	plan) SPCC Plan	1an? (265.52 - . is Stearã	content of	Yes _	✓ No	
5.	driving dis	emergency coordi tance of the plan t primary emergen	t at all timee?	?	Yes _	No Asst. P	lant
Sec	tion D - Man	ifest System, Rec	ordkeeping and	Reporting		manag	gr
1.	Has facility since Novem	y received hazard ber 19, 1980? (26	ous waste from 5.71 - Use of m	off-site manifest system)		Yes 🗸 N	الم
•	a. If no,	questions 1, 2 a	nd 3 not applic	able.		•	
	b. If yes manife	, does the facili sts?	ty retain copie	es of all		Yes No	,
	1. A	re the manifests eturned to the ge	signed and date nerator?	ed and		Yes No	, [
	2. I	s a signed copy g	iven to the tra	insporter?		Yes No	
2.	rail or wate	ility received an er (bulk shipment 71 - Use of manif) transporter s	ite from a since Nov. 19,	·	Yes No	,
	a. If yes	, is it accompani	ed by a shippin	g paper		Yes No	,
	S)	pes the owner/ope hipping paper and enerator?	rator sign and return a copy	date the to the		Yes No	,
	2. Is	s a signed copy g	iven to the tra	nsporter?		Yes No	1
3.	Since Novemb	ility received an per 19, 1980, whi 265.72 - Manifest	Ch were inconsi	stent with the		Yes No	
	a. If yes, with th	, has he resolved ne generator and	the discrepanc transporter?	У		Yes No	1
	1. If	f no, has Regiona	l Administrator	been notified?		Yes No	,
4.	under the so	ility received an mall generator ex 265.76 - Unmanife	clucion) not ac	companied by	· ,	YesNo	
	a. If yes, to the	, has he submitte Regional Adminis	d an unmanifest trator?	ed waste report		Yes No	1
5.	Does the fac (265.73 - Op	cility have a wri	tten operating	record?	<u> </u>	Yes No	ì
	a Teac	any maintained at	4ha 5aa27247		. 1.		

(

5.	b. Does the record include	
	Description and quantity of each hazardous waste and the methods and dates of its treatment, storage or disposal at the facility?	✓ Yes No
	2. Location and quantity of each hazardous wasteof at each location?	<u>√</u> Yes No
ude: The	a. Is this information cross-referenced with specific manifest document numbers, if applicable?	NAYes No
diversión he uni por	3. (for disposal facilities only) Is the location and quantity of each hazardous waste recorded on a map or diagram of each cell or disposal area?	
nachel	disposal area? 4. Record and results of waste analyses?	Yes No
pproximal	5. Reports of incidents involving implementation of the contingency plan? (If applicable)	رر Yes No
on-site.	Records and results of required inspections	<u>√</u> Yes No
	7. Monitoring, testing or analytical data where required?	✓ Yes No
<u>Sec</u>	8. Closure cost estimases and for disposal facilities, post-closure cost estimates? May 19th, 1983 - \$ 5,800 (inflation factor) tion E - Plans and Reports	· · · · · · · · · · · · · · · · · · ·
1.	Have all plans and reports been visually inspected and /or been made available for inspection? (265.74 - Availability, retention and disposition of records)	
Lis	t plans and/or reports not made available for inspection.	
2.	Did operator provide inspector with a drawing of the facility?	✓ Yes No
	a. If yes, please indicate which are hazardous waste facilities on the drawing.	+9

3.	Indicate types of hazardous waste facilities.
	Containers
	Tanks
	_ ✓ Surface Impoundments
	Waste Piles
	Land Treatment
	Landfill
	Incinerator
	Thermal Treatment
	Chemical, Physical and Biological Treatment
	Groundwater Monitoring Program

COLFAX LAD 008 1846 Attachmat 1

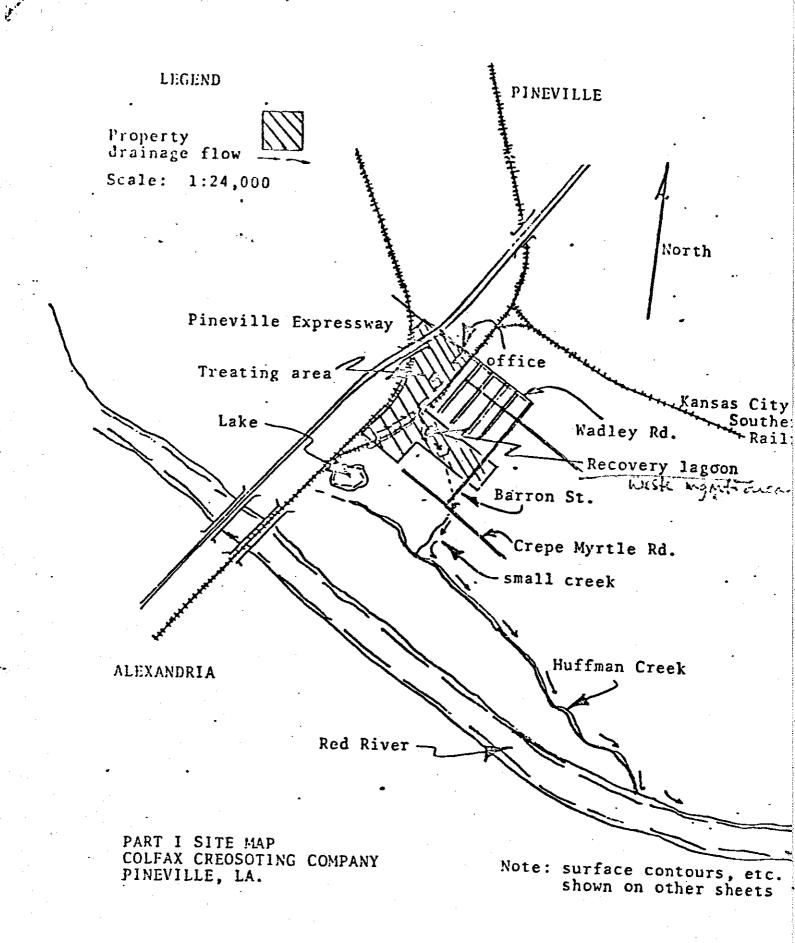
Section B- Preparedness frevertion

1. There was some spillage of preserving moterials in the process areas. Most of this spillage was directly on. The ground. At this time, the faility is in the process of diking and concerting

this area. The extent of contamination to the environment was distinct to assess from

just observation.

(



SURFACE IMPOUNDMENTS CHECKLIST Subpart K - Surface Impoundments 265.220

NOTE: Check all surface impoundments. Fill out one checklist for any impoundment in violation. Fill out one checklist for all other impoundments in compliance. Indicate number of surface impoundments at the facility.

1. Are there any surface impoundments which are not being used which the facility does not plan to use in the future?

1.		there any surface impoundments which are not being used facility does not plan to use in the future?	which
		See namative on next	Yes No
	a.	If yes, has all hazardous waste and hazardous waste residue been removed from the impoundment?	Yes V No
2.	Are	impoundments presently used to treat or store waste?	✓ Yes No
3.	Does (60	the impoundment appear to maintain at least 2 feet cm) of freeboard?	✓ Yes No
-	⊸a.	If no, what was the freeboard?	
4.	Is t	here evidence of overtopping of the dike?	Yes 🗸 No
	If y	es, please describe.	
			•
5.	Does	the impoundment have a containment system?	✓ Yes No
		Does the earthen dike have adequate protective cover (e.g. grass, shale, rock) to minimize wind and water erosion? (Use narrative explanation sheet to explain deficiencies.)	
	b.	Provide description of containment. dike (earthan)	; Some weed
6.	What expl	wastes are treated or stored in the impoundment? (Use	narrative
7.	Are I	nazardous wastes chemically treated in the impoundment?	Yes No
	a.	If yes, are	NIA
	,	 Waste analyses and trial tests conducted on these wastes or 	Yes No
•	•	2. Does the owner/operator have written documented information on similar treatment of similar wastes under similar operating conditions?	4.
	L		Yes No
	D.	Is this information retained in the operating record?	Yes No V

	8.	Is the impoundment inspected daily to check freeboard level? Ves No
		Is the impoundment, dike and vegetation surrounding the dike inspected to detect leaks, deterioration or failures at least once a week? (265.226 - Inspections) Ves No
	10.	Does the facility maintain a record of the closure plan on site? Yes No
	. 11.	Are ignitable or reactive wastes placed in the impoundment?Yes V No
		a. If no, do not complete b and c. b. If yes, are they treated, rendered or mixed before or immediately after placement in the impoundment so it no longer meets the definition of ignitable or reactive? Yes No
•		<u>OR</u>
		c. Is the impoundment used solely for emergencies? Yes
		 If yes, has further treatment, storage or disposal been conducted on these wastes? Describe this situa- tion.
·,		
	12.	Has the facility ever placed incompatible wastes in the impoundment? Yes ✓ No
	-	a. If yes, what were the results. (Use narrative explanation sheet.) (Look for signs of mixing of incompatible wastes e.g., fire, toxic) A mist, heat generation, bulging containers, etc.)
	13.	What is the impoundment lined with? impoundment is not lived.
*1. A+	This	time wastewater is no longer being put wito the posses.
The	w.	stewater is run back through the suptem and ating compaineds are renoved. The water is discharged
t	e the	ating comprised are renoved. The water is discharged
w	der	permit, to city sewer. The old materials in the
, u	inpor	permit, to city sewer. The old materials in the short have not been remod.
•	1	

Closure

			•		
A.	If y	yes,	e facility have a closure plan? complete the following checklist.	Yes V	
	1.	Does	s the plan include: The Plan so	aup facil serpetu	ity will opera
		a.	s the plan include: 78 - Plan so A description of how and when the facility will be partially then finally closed?	Yes	No gi
		b.	An up-to-date estimate of the maximum inventory of wastes in storage and treatment at the time of inspection?	Yes	No <u>V</u>
		c.	A description of decontamination procedures for facility equipment?	Yes	
		d.	An estimate of expected year of closure?	Yes	No 🗸
	2.	Doe:	s the plan include a schedule for final closure? yes, does it include:	Yes	No 🗸
		a.	Time estimates for each phase of closure for each area?	Yec	No 🗸
·		b.	Total time estimate for closure?	Yes	No _
	3.	sum	ng narrative explanations sheet, give a brief marv of how the facility plans to close each		native
	4.		the plan been amended as necessary to reflect nges in facility operations or design?	Yes	NoNIA
<i>j</i> n.	a-j Hav	nec est 19,1 e cl	cost estimates available and modified as essary? If yes, give date of latest cost imate adjustment? 1983 . 5,800 (usin 1.04 adjustment) osure activities begun at the facility? yes,	Yes 🗸	
	••	a.	Was the closure plan submitted to the Regional Administrator at least 180 days prior to beginning these activities?	Yes	No
		b.	Were all wastes treated or disposed of within 90 days of the final receipt of wastes?	Yes	No
,		c.	Do the actual closure activities correspond to those written in the closure plan?	Yes	No
		If	no, give explanation.	•	1
	2.	fin	closure completed within 180 days of receipt of all volume of wastes? no, give explanation.	Yes	No
	3.	cat If	completion, did the facility submit a certifi- tion of closure to the Regional Administrator? yes, was it signed by both the owner/operator I an independent registered professional	Yes	No
		eng	jineer?	Yes	No

Closure - See plan (Attachment 4)

3. Facility plans to remove water from on top of the hozardons "sludge. Sail pH in the impoundment will be adjusted and nutrients added to degrad the crossite wastes. Sides and bottom will be disced and testing will be done.

Note: There was some discussion between state and Colfax africials as to the proposal for - landfairning" this area as a closure mechanism. Problems regarding interim statue and premit regnirements were oldressed and this area of concern will be raised with state premit staff.

APPENDIX A-1

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FACILITY INSPECTION FORM FOR COMPLIANCE WITH INTERIM STATUS STANDARDS COVERING GROUND-WATER MONITORING

	•	COLFAX CREOSOTING				
Comp	any Na	me:CompANY;	EPA L.D. Numbe			
Comp	any Ad	dress: Wadley Road	; Inspector's Na	me: <i>Holl,</i> Hesson	- DNR	SON-JOIN EPA
		Pineville Louisian				•
Comp	апу Со	ntact/Official: Clyde Norton	; Branch/Organi	zation:		
Title	Joh	ntact/Official: <u>Clyde Norton</u> Vice Pres. u Ball - Consultant Ball Engineering	; Date of Inspec	tion://	14/83	
		Ball Engineering	<u>Y es</u>	No	Unknown	Waivec
Туре	of facil	lity: (check appropriately)	,			
-	a) b)	surface impoundment landfill				
	c) d)	land treatment facility disposal waste pile*		芝		
Groun	nd-Wat	er Monitoring Program				
1		e ground-water monitoring programed prior to site visit?		<u>/</u>		
	a)	Was the ground-water program reviewed at the facility prior to site inspection?	<u>~</u>			
. ((capabl impact the upp	round-water monitoring program e of determining the facility's on the quality of groundwater in permost aquifer underlying the y) been implemented? 255.90(a)	See o Chech	rour lists	duate and o	L H ichmen
*List	ted sep	arate from landfill for convenience		س ن اه ف ننه	not aluate pecto	be by

00 -	•	Yes	No U	nknown Waived
one well (3. has been) installed and designated	Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area? 265.91(a)(1)	J		-
upgradient. beck Appendix 3 for data used to determ	a) Are ground-water samples from the uppermost aquifer, representative of background ground-water quality and not affected by the facility (as ensured by proper well number, locations and depths?)			•
this designation	Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2)		only ho	hy 2 well we been loignatel a
sheck B Apperlix B For details	a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of HW or HW constituents that migrate from the waste management area to the uppermost aquifer?		d	ovn-gradie wells
5.	Have the locations of the waste management areas been verified to conform with information in the ground-water program?	<u> </u>		
	a) If the facility contains multiple waste management components, is each component adequately monitored?	~/.	A	
	Do the numbers, locations, and depths of the ground-water monitoring wells agree with the data in the ground-water monitoring system program? If "No", explain discrepancies.	ations/n	umbas	depths r defermine — during
7.	Well completion details. 265.91(c)			inspect.
See Appendix B.	 a) Are wells properly cased? b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths? c) Are annular spaces properly sealed to prevent contamination of ground- water? 			

-

			Yes	<u>No</u>	Unknown
8.		s a ground-water sampling and analysis in been developed? 265.92(a)	<u> </u>		
	a) b) e)	Has it been followed? Is the plan kept at the facility? Does the plan include procedures and techniques for:	<u>/</u>		
		1) Sample collection? 2) Sample preservation? 3) Sample shipment?	<u>×</u>		
		4) Analytical procedures? 5) Chain of custody control?	▼		•
9.	San	e the required parameters in ground-water apples being tested quarterly for first year? 265.92(b) and 265.92 (c)(1)	<u> </u>		
	a)	Are the ground-water samples analyzed for the following:			
•		 Parameters characterizing the suitability of the ground- water as a drinking water supply? 265.92(b)(1) 	J		
		2) Parameters establishing ground-water quality? 265.92(b)(2)			
		3) Parameters used as indicators of ground-water contamination? 265.92(b)(3)	<u>√</u>		•
		(i) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2)	✓ ·		
		(ii) Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2)	<u> </u>	·	
	b)	For facilities which have completed first year ground-water sampling and analysis requirements:	s	 -\	(/
		 Have samples been obtained and analyzed for the ground-water quality parameters at least annually? 263.92(d)(1) 	•	•	
٠		Have samples been obtained and analyzed for the indicators of ground-water contamination at		. <u> </u>	
		least semi-annually? 265.92(d)(2)			V

		37		
·) Were ground-water surface elevations	<u>Y es</u>	<u>No</u>	Unknown
	determined at each monitoring well each			
	time a sample was taken? 265.92(e)	/		
d	Were the ground-water surface elevations		· —	
	evaluated annually to determine whether the			
	monitoring wells are properly placed?	2		•
	265.93(f)	/		
е) If it was determined that modifi-	<u></u>	· -	
	cation of the number, location or depth		_	
	of monitoring wells was necessary, was			•
·	the system prought into compliance with			
	265.91(a)? 265.93(f)		N/A	
	· ·		<u> </u>	
10. H	as an outline of a ground-water quality			
- · · ·	ssessment program been prepared?	_		
2 ما	65.93(a)*			
gw attachment (2)				
See Library (a)	and a program capable			
) attack	of determining:			
OX W	1) Whether hazardous wasta as heard			
0 1	The state of the s			
<i>)</i>	waste constituents have entered the			
<i>1</i>	ground water?			•
·	2) The rate and extent of migration of			
·	hazardous waste or hazardous waste constituents in ground water?			
\	3) Concentrations of hazardous waste			
	or hazardous waste constituents			
	in ground water?			
(1 🗘 6)	After the first year of monitoring,			
1/A b)	have at least four replicate measures			
* .	ments of each indicator parameter been			
	obtained for samples taken for each			
	well? 265.93(b)			
			· 	
	1) Were the results compared with the			
	initial background means from the			•
·	upgradient well(s) determined			
	during the first year?			
\	(i) Was and we the		•	
1	(i) Was each well considered			
-1	individually?			
1	(ii) Was the Student's t-test used			-
†	(at the 0.01 level of significance)?			
· ·	2) Was a significant increase (or att	_ 		-
1 · ·	2) Was a significant increase (or pH decrease as well) found in the:			
1	The state of the s			
1	(i) Upgradient wells			
The state of the s	(ii) Downgradient wells			
у.	If "Yes", Compliance Checklist A-2			-
•	must also be seen to wheeking M-2			

				<u>Yes</u>	No	Unknown
11.	Have para 265.	mete	ords been kept of analyses for ers in 265.92(c) and (d)? (1)	<u>√</u>		
12.	surfe	ace e	ords been kept of ground-water elevations taken at the time of for each well? 265.94(a)(1)	<u> </u>		
13.	elev	e rec ation .94(a	eords been kept of required ns in 265.93(b)? X1)	<u> </u>		•
14.	Hav Reg	e the	e following been submitted to the l Administrator 265.94(a)(2):*	state		
	a)	para 15 d ana	ial background concentrations of ameters listed in 265.92(b) within lays after completing each quarterly lysis required during the first year?			this information is available from state
	b) e)	For conthe in (each well, have any parameters whose identrations or values have exceeded maximum contaminant levels allowed drinking water supplies been parately identified?			from state
			Concentrations or values of parameters used as indicators of ground-water contamination for each well along with required evaluations under 265.93(b)?			
		2)	Any significant differences from initial background values in upgradient wells separately identified?			
		3)	Results of the evaluation of ground-water surface elevations?)

*EPA will be proposing (Spring 1982) to replace this reporting requirement with an exception reporting system where reports will be submitted only where maximum contaminant levels or significant changes in the contamination indicators or other parameters are observed. EPA has delayed compliance stage for 14 a) above until August 1, 1982 (Federal Register, February 23, 1982, p.7841-7842) to be coupled with exception reporting in the interim.

APPENDIX B

GROUND-WATER MONITORING AND ALTERNATE SYSTEM TECHNICAL INFORMATION FORM

1.0	Backg	round Data:		
Con	npany N	ame: COLFAX CREOSOTI	NC · FDA IN H. / AN	n=91971774
Соп	npany A	Pineville - Louisia	Po A. X 231	008184470
Insp	ector's ?	Holly Anders - 6	NR; Date: /////	183
1.1	Type o	f facility (check appropriately):		
	1.1.1 1.1.2 1.1.3 1.1.4	surface impoundment landfill land treatment facility disposal waste pile		
1.2	Has a g establi:	round-water monitoring system shed?	been	(Y/N) Y
	1.2.1	Is a ground-water quality assess program outlined or proposed?		(Y/N) Y
	·	If Yes,	GW See Attachmen	# I
	1.2.2	Was it reviewed prior to the sit-	e visit?	(Y/N) N
1.3	Has a g implem	round-water quality assessment ented or proposed at the site?	program been	(Y/N) V has not officiall
	If yes, Program	Appendix C, Ground-Water Quali n Technical Information Form m	ty Assessment ust be utilized also.	recognize.
2.0		l/Facility Map(s)	•	Contamination Dri
2.1	is a reg delineat	ional map of the area, with the fied, included? full-scale (On	Mark 1, 10 C	(Y/N) Y
	If yes,	in inspection	smaller rea	iwal map
	2.1.1	mat is the origin and scale of t	he map? Wat INC	luded -
	,	<u>See</u>	gw Attachnes	1 2 43
	2.1.2	Is the surficial geology adequate	ly illustrated?	(Y/N) Y

(Y/N) <u>Y</u>

	2.1.3	Are there any significant topographic or surficial features evident? If yes, describe	(Y/N) <u>//</u>	
				<u> </u>
	2.1.4	Are there any streams, rivers, lakes, or wet lands near the facility?	(Y/N) Y	· · · .
	,	If yes, indicate approximate distances from the facility Huffman Creek (immediate) flows + May Pan Divor	4 4 4 4	C 119 \
		A TOPAL LOOKEN	inately In	tacility)
		Telovery lagoout		- · · · · · · · · · · · · · · · · · · ·
·	2.1.5	Are there any discharging or recharging wells near the facility?	(Y/N)	> See e.w
		If yes, indicate approximate distances from the		Sattachne
		facility.	· 	(4
				-
2.2		gional hydrogeologic map of the area included? aformation may be shown on 2.1) wo asvial view of recharge disclared	(Y/N) N	J.
•	2.2.1	Are major areas of recharge/dishcarge shown?	_	6
	٠.	If yes, describe.	(Y/N) N /	A
				The control of the co
the growlwater (2.2.2	Is the regional ground-water flow direction indicated? regional is Not done; See		= -
y facility wairy (2.2.3	Are the potentiometric contours logical?	(Y/N) <u>N</u>	and the second s
be elevations)		If not, explain. See 60 AJ	(Y/N)	·
uring sampling.			Chheut_5) control of the cont
the than by.				e e e e e e e e e e e e e e e e e e e
egional mapping		lity plot plan included? See Attachment 6	(Y/N) Y	The control of the co
	2.3.1	Are facility components (landfill areas, impound- ments, etc.) shown? See wowen lagon"	(Y/N) Y	The second secon
	2.3.2	Are any seeps, springs, streams, ponds, or wetlands indicated?		a modern store (c.), cr
•			(Y/N) <u>Y</u>	

(

. 1					•*	
J.k:	3.0	Roil Bosing/Tone Bis	N.A. 19.			
wells were		Soil Boring/Test Pit I	······································			
installed for	才3.1	Were soil borings/tes:	t pits made under the sup	pervision	_	
A	- '	of a qualified profess	ional?		(Y/N) Y	
ago. Bours	were	í yes,				-
lone on 4/4)!	(3 _					
time in 7177	• مدن	3.1.1 Indicate the i	ndividual(s) and affiliation	on(s): N. J. 4	Yoroha!	h. P.E. :
		Leo Techni		· Duc.		
		Drive				
				Alexandria		<u>•</u>
		3.1.2 Indicate the d	rilling/excavating contra	ector, if known	<u> </u>	•
		Lee W	ell Dulling, 1	alexandri	JA	
	3.2	f soil borings/test nit	3		- (C-)	-
		f drilling/excavating	s were made, indicate th	ie method(s)		
		_		1 .		
	•	Auger (hollow	or solid stem)	truch-n	rounted	auger
		Mud rotary Air rotary				U
		Reverse rotar	у .			
		Cable tool	•			
		Jetting Other include	## ###################################			
	٠	Other, mendi	ng excavation (explain)			
						_
	3.3 .	ist the number of soi	l borings/test pits made	At the site		
			•			
,		.3.1 Pre-existing		<u>O</u>		
•		.3.2 For RCRA cor	npliance	3		
	3.4					
	0.7	ameters and depths t	eters and depths (if diffe	erent		
		ا هنام من من مناه مناه مناه مناه	. II			
		4.1 Diameter: 4				
		4.2 Depth: one ad	. // 0 .	3.1		
		Schuir Did So	to) det	<u>30'</u>		
	3.5	ere lithologic sample	s collected during drillin	₽?	(Y/N) Y	
		yes,	•	•	(1/10)	
) 		ا منگرین		
•		5.1 How were sam	ples obtained? (Check m	ethod(s))	. _F : _	
		,	, , , , , , , , , , , , , , , , , , , ,			•
		Split spoonShelby tube	or similar			e e e e e e e e e e e e e e e e e e e
		Rock coring	or summar	Standard	Seamless	
		Ditch samp	ling			
		Other (explanation)	ain)			9
		Sampl	es taken abou	at even	51	
		•				·
			•		7	

	2.3.3	Are the locations of any monitoring wells, soil borings, or test pits shown? See Attachments	(Y/N) Y
	2.3.4	Is the facility a multi-component facility?	(Y/N) N
		If yes:	
		2.3.4.1 Are individual components adequately monitored?	(Y/N) NIA
		2.3.4.2 Is a Waste Management Area delineated?	(Y/N) N/A (Y/N) N/A
2.4	Is a sit	e water table (potentiometric) contour map	, —
	If yes,	mlin All In + 5	is available
	2.4.1	Do the potentiometric contours appear logical based on topography and presented data? (Consult water level data)	(Y/N) JA
	2.4.2	Are groundwater flowlines indicated?	(Y/N)
	2.4.3	Are static water levels shown?	(Y/N)
	2.2.4	May hydraulic gradients be estimated?	(Y/N)
	2.4.5	is at least one monitoring well located hydraulically upgradient of the waste management area(s)?	(Y/N)
٠	2.4.6	Are at least three monitoring wells located hydraulically downgradient of the waste management area(s)?	(Y/N)
	2.4.7	By their location, do the upgradient wells appear capable of providing representative ambient groundwater quality data?	(Y/N)
		If no, explain.	
	•		

	•	1	
-	BORING NO.	DEPTH	DIAMETER
Fee	gw	attachn	ent 9
<u>.</u>			

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- 1							
	WELL NO.)	2	3		T	
	GROUND ELEVATION	101	94'	941	 		-
	TOTAL DEPTH	55'	58'	62'			
	TYPE MATERIAL	Pvc	Pyc				-
	DIAMETER	4"		4"			
	LENGTH		4	4			
NET I	STICK-UP	1'6"	16"	- 11			
*	TOP ELEVATION	16	16	12"			
	BOTTOM ELEVATION						
	DEPTH TOP/BOTTOM	45	48	52			
	TYPE MATERIAL	PVC PVC	58	040			
SCHEEN	DIAMETER	1	PVC	PVC			
	LENGTH						
WELL	SLOT SIZE	0.01"	0.01" 0	.01"			
	TOP ELEVATION						
	BOTTOM ELEVATION						
Š	DEPTH TOP/BOTTOM						_
E OR	DIAMETER						
OPEN HOLE ND/GRAVEL	LENGTH						
OPEN HOLE SAND/GRAVEL	TOP ELEVATION						
•	SOTTOM ELEVATION						

4.3.3	Are annular spaces sealed?	(Y/N) <u>Y</u>
	If yes, describe:	
	bentonite slurry	
	• Cement grout	
	Other (explain)	
	Thicknesses of seals	
4.3.4	If "open hole" wells, are the cased portions sealed in place? (Y/N)	ed .
		NIA
· -	If yes, describe how:	
4.3.5	Are there cement surface seals?	(Y/N) <u>Y</u>
	If yes,	
	How thick? un Known	
4.3.5	Are the wells capped?	(Y/N) Y
	If yes,	(1/14)
	Do they lock?	(Y/N) <u>Y</u>
4.3.7	Are protective standpipes cemented in place?	(Y/N) Y
4.3.8	Were wells developed?	(Y/N)
	If yes, check appropriate method(s):	unkrown - 1
	Air lift pumping	records kept
	Pumping and surging	
	Jetting Bailing	
	Other (explain)	
Aquife	r Characterization	
Has th	e extent of the uppermost saturated zone	. : .
(aquife	r) in the facility area been defined?	(Y/N) Y
If yes,	see gw attachment 5	
5.1.1	Are soil boring/test pit logs included?	(Y/N) N
5.1.2	to defermine agrifes. Are geologic cross-sections included?	
		+ (Y/N) Y
	See gw attrib	Menul
	•	61

5.0

5.1

5.2	Is ther layers	e evidence of confining (low permeability) beneath the site? (Y/N)
	If yes,	based on consultants on over (1/N) using sike boing information
	5.2.1	Is the areal extent and continuity indicated? (Y/N)
	5.2.2	is there any potential for saturated conditions (perched water) to occur above the uppermost aquifer? (Y/N)
		If yes, give details: observed during horizon, according to consultant
	- '-	a) Should or is this perched zone being monitored? (Y/N) N
		Explain from
	5.2.3	What is the lithology and texture of the uppermost saturated zone (aquifer)?
		red coarse sand - 34' below
		Surface
	5.2.4	What is the saturated thickness, if indicated? 27'
5.3	Were st	atic water levels measured? (Y/N)
	5.3.1	How were the water levels measured (check method(s)).
	•	Electric water sounder Wetted tape
·	•	Air line Other (explain)
		Do fluctuations in static water levels occur? (Y/N) N If yes, functions of Several enches
		5.3.2.1 Are they accounted for (e.g. seasonal, tidal, etc.)? (Y/N) \(\infty\)/A
		If yes, describe:

	5.3.2.2	Do the water level fluctuations after the general ground-water gradients and flow directions?	(Y/N) NA
		If yes,	
	5.3.2.3	Will the effectiveness of the wells to detect contaminants be reduced?	(Y/N)
		Explain	· · · · · · · · · · · · · · · · · · ·
	5.3.2.	4 Based on water level data, do any head differentials occur that may indicate a ver flow component in the saturated zone?	tical (Y/N) N
		If yes, explain	
5.4		hydraulic properties been determined?	(Y/N) <u>N</u>
	If yes,	and a do	1
	•, -	eate method(s):	
:	1	Pumping tests Falling/constant head tests Laboratory tests (explain)	
	4	etermined, what are the values for:	
	•	Transmissivity Storage coefficient	.
•	•	Leakage	
	•	Permeability Porosity Specific capacity	
	5.4.3 In dis	cases where several tests were undertaken, we crepancies in the results evident?	(Y/N)
	If	yes, explain	V
	5.4.4 W	ere horizontal ground-water flow velocities etermined?	(Y/N) <u>N</u>
	If	yes, indicate rate of movement	~//

6.0	Well 1	Performance	
6.1	Are ti	the monitoring wells screened in the uppermost aquifer? (Y/N	n _Y _
	6.1.1		n <u>N</u>
	6.1.2	For single completions, are the intake areas in the: (check appropriate levels)	
		 Upper portion of the aquifer Middle of the aquifer Lower portion of the aquifer 	60#3 unkrow
	6.1.3	and discount are the littake areas open	- #1+2) <i>N/A</i>
	6.1.4	Do the intake levels of the monitoring wells appear to be justified due to possible contaminant.	
7.0	Groun	nd-Water Quality Sampling	· · · · · · · · · · · · · · · · · · ·
7.1	Is a sa includ	ampling (groundwater quality) program and schedule led? See gw Attachment 11 (Y/N	<u>y</u> .
7.2			Y
	7.2.1	How are samples obtained: (check method(s))	
		Air lift pump Submersible pump Positive displacement pump Centrifugal pump Peristaltic or other suction-lift pump Bailer Other (describe)	· ·
	7.2.2	Are all wells sampled with the same equipment and procedures? (Y/N)	<u>y</u>
-		If no, explain hailer used on all wells;	·
	7.2.3 P	Are adequate provisions included to clean equipment after sampling to prevent cross-contamination between wells? New one bailer was used. It leaved between wells. Colfax or	<u>У</u> wao _p
	ري ح	leaned between wells. Colfax m	w has

	7.2.4 Are	organic constituents to be sampled?	(Y/N) <u>Y</u>
	If ye	s,	
	7.2.4	Are samples collected with equipment to minimize absorption and volatilization?	(Y/N)
		If yes,	
		Describe equipment bailes are	used-but.
	•	water sample must be bailer to sample con	poured from
8.0	Sample Prese	ervation and Handling	
8.1	procedures be	riate sample preservation and preparation een followed (filtration and preservation prints)? (Note: Samples on ret	fered)
8.2		refrigerated? because of necessity to	
Note: Samples are frit.	Are EPA rece	Stup Sample via commercial ommended sample holding period requirements	Caviers
ona bus, shipped, and	-	er note on this page	(Y/N) <u>\</u>
day host holding times are met, 8.5	Are provision	container types used? all containes are plantic s made to store and ship samples under	(Y/N)
however, if a certain	cold condition	ns (ice packs, etc.)?	(Y/N) <u>N</u>
prameta regures.6 only 24 hr. listling	Is a chain of	custody control procedure clearly defined?	(Y/N) <u> </u>
time, that 8.7	Is a specific of	chain of custody form illustrated?	(Y/N) Y
usually is not	If yes,	·	
Syrex.	samp	this form provide an accurate record of le possession from the moment the sample sen until the time it is analyzed?	e form in que attract !
9.0		sis and Record Keeping	(Y/N) <u>Y</u>
9.1			
	Indicate lab	lysis performed by a qualified laboratory? auannah Laboratories and Envi	connectal Services
9.2	Are analytica	I methods described in the records? A methods referenced on	gia (9/2) 354 - 7859 (Y/N) <u>Y</u>
and the second second	.9.2.1 Are a	nalytical methods acceptable to EPA?	(Y/N) <u>Y</u>
9.3	Are the requitested for?	red drinking water suitability parametters	(Y/N) Y
9.4	Are the requi	red groundwater quality parameters tested for?	(Y/N) Y
Some lab would	also don	e .	
by John Ba	Ol, Bill 9	in gineering	

9.5	Are t paran	he required groundwater contamination indicator neters tested for?	(Y/N) <u>Y</u>		
9.6	Are a	ny analytical parameters determined in the field?	(Y/N) Y		
	. Identi				
	• Sp	mperature ecific conductance her (describe)		•	
9.7	is a pl	an included to record information about each sample ted during the groundwater monitoring program?	(Y/N) <u>Y</u>	ee examp form in gw Attoch	
	9.7.1	Are field activity logs included?	(Y/N) <u>Y</u>	8 W Attorles	
	9.7.2	Are laboratory results included? Kept separate	(Y/N) \(\lambda\)		
	9.7.3	Are field procedures recorded?	(Y/N) Y		
	9.7.4	Are field parameter determinations included?	(Y/N) \		
	9.7.5	Are the names and affiliation of the field personnel included?	(Y/N) <u>Y</u>		
9.8	Are st	atistical analyses planned or shown for all water results where necessary?	(Y/N) <u>Y</u>	·	
	9.8.1	Is an analysis program set-up which adheres to EPA guidelines?	(Y/N) <u>Y</u>		
	9.8.2	Is Student's t-test utilized? If other evaluation procedure used, identify	(Y/N) <u>Y</u>		
	9.8.3	Are provisions made for submitting analysis reports to the Regional Administrator?	(Y/N) Y		
10.0	Site Ve	erification all analysis submitted to	ina DUR	obsice	
10.1	Plot Pl compos waters	an indicating the locations of various facility nents, ground-water monitoring wells, and surface?	(Y/N Y)		
	10.1.1	Is the plot plan used for the inspection the same as in the monitoring program plan documentation?	(Y/N) Y	. •-	
•	•	If not, explain			

(

1.2	Are all of the components of the facility identified during the inspection addressed in the monitoring progradocumentation?	ram (Y/N)	<u>Y</u>
	If not, explain		
1.3	Are there any streams, lakes or wetlands on or adjacent to the site?	(Y/N)	<u>У</u>
	If yes, indicate distances from waste management area Sheam immediately adja	rent	- <u>to</u> •
	_ impossament (as noted or	<u> </u>	aps)
1.4	Are there any signs of water quality degradation evident in the surface water bodies?	(Y/N)	N
	If yes, explain		
		 	<u> </u>
.1.5	Is there any indication of distressed or dead vegetation on or adjacent to the site?	(Y/N)	<u>N</u>
	If yes, explain		
			·
.1.6	Are there any significant topographic or surficial features on or near the site (e.g., recharge or discharge areas)?	(Y/N)	
	If yes, explain	(1/1/	
.1.7	agreement with the monitoring program	(Y/N)	Y
	If no, explain		
	10.1.7.1 Were locations and elevations of the monitor wells surveyed into some known datum?	(Y/N)	Y
	If not, explain John Ball explaine	e pu	redue.
	to determine the surveyed date		
	line near the railroad to	. A IA	N - 114 -
	railroad track was very ne be determined 100' to be the datum.	an,	the wel
	he ditermined 100' to be the	L 100	selve

	If not, ex	plain See 10.1.7.2.		
	If yes, inc	licate well number and water level elevation_		• •
10.1.9	Were wat visit?	er level elevations measured during the site	(Y/N) N	- .
10.1.8	Mettz:	nd water encountered in all monitoring	(Y/N)	- _
	10.1.7.3	If not, explain State failing not EPA equipment not au	iai lable	en de
	10.1.7.2	in die mens sounded to defermine total		ſ

1.3. (·

COLFAX LADOO81846, Attachment:

as per Environmental Services policy, the following is a summary of the exit interview:

1. Shere was a general discussion of the most recent order filed by the state against Coffax. It was determined that the grestions should be addressed to Maurice Lasserre (See Copy-Athehment 6)

2. State inspector told the site there were

so major peoblems noted during the

inspection.

3. It was also discussed that Colfax non like to use crossite pitch with appliant in waking roads made the plant. It inque said to file a proposal with permit section and discuss the relationship of the crossite pitch to materials normally used in making appliant.